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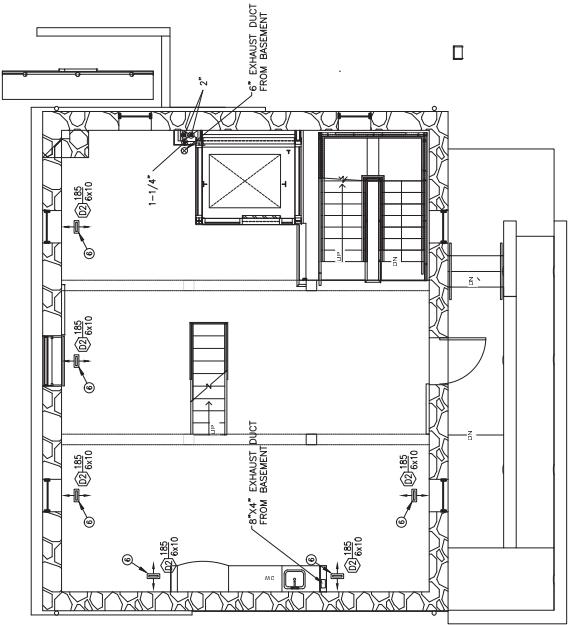
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NEW WORK NOTES

- (1) NEW VERTICAL UPLIFT GEOTHERMAL HEAT PUMP IN MECHANICAL ROOM. SEE SHEET MST100 FOR WELL FIELD LOUVER DOOR.
- (2) CEILING REGISTER ATTACHED DIRECTLY TO DUCT.
- (3) SUPPLY DUCT TIGHT TO BOTTOM OF STRUCTURE.
- (4) SUPPLY DUCT FOR FLOOR REGISTERS ABOVE. SEE FIRST FLOOR REGISTER. SEE BASEMENT PLAN THIS SHEET FOR DUCT DISTRIBUTION.

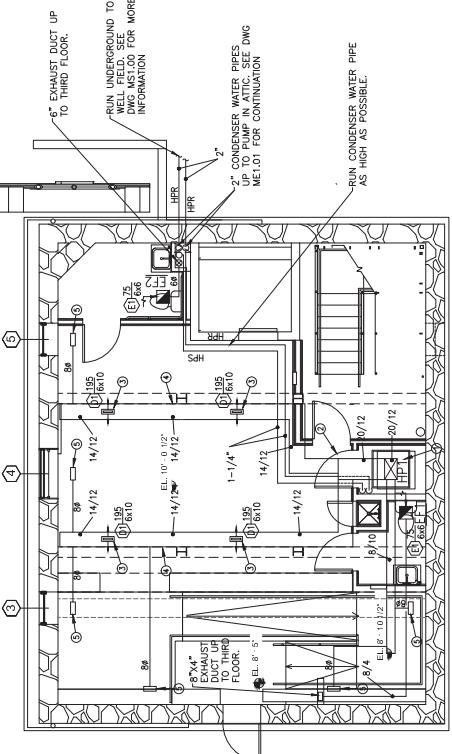
LEGEND

ITEM	DESCRIPTION
	SQUARE ELBOW WITH TURNING WAVES
	DUCTWORK, SIZE SHOWN IN INCHES
	MANUAL BALANCING DAMPER
	MOTORIZED CONTROL VOLUME DAMPER (MVD) SWITCH
	CARBON MONOXIDE SENSOR MONITORS UNIT MONITORED
	THERMOSTAT
	CUBIC FEET PER MINUTE
	FIRE DAMPER
	BALANCING DAMPER
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	CENTER LINE
	DIFFUSER DESIGNATION (SIZE, NECK SIZE)
	CEILING DIFFUSER DIRECTION OF FLOW AS INDICATED
	DOOR OR LOUVER DIRECTION INDICATED
	RETURN AIR OUTLET
	EXHAUST AIR OUTLET
	OUTSIDE AIR
	RETURN AIR
	ABOVE FINISHED FLOOR
	UNLESS NOTED OTHERWISE
	OPENED BLADE DAMPER
	DIRECT DIGITAL CONTROL PANEL
	PUMP DESIGNATION
	EXHAUST FAN DESIGNATION
	EXPANSION TANK DESIGNATION
	HEAT PUMP DESIGNATION
	AUDIO/VISUAL DEVICE
	AIR SEPARATOR DESIGNATION
	HOT WATER SUPPLY
	HOT WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN



**BUILDING 504
MECHANICAL PLAN - NEW WORK - FIRST FLOOR**
SCALE: 1/4" = 1'-0"

**BUILDING 504
MECHANICAL PLAN - NEW WORK - BASEMENT**
SCALE: 1/4" = 1'-0"

**FINAL**

Project Title:		RENOVATE MANSION HOUSE & BASEMENT & FIRST FLOOR	
Approved: Chief, Facilities and Engineering:		Mechanical Plan	
Approved: Associate Chief for Maintenance and Operations, Party Point:		New Work	
Approved: Associate Director for Operations:		Basement & First Floor	
Approved: Director, Medical Center:			
Date:	10/15/2012	Project No.:	51245-10-335
Drawn:	RL	Checked:	RL
Building No.:	504	Drawn:	RL
Reviewed:		Approved:	
Drawings:		Drawings:	

BESS DESIGNBUILD	188 K Street, NW, Suite 600 Washington, DC 20006 Phone: 202-223-2324 Fax: 202-223-6121	Drawing Scale: AS NOTED	Approved Start Date: 07/07/2012
		Drawing Finish Date: 10/15/2012	Drawing Approved: JOE BRANCH

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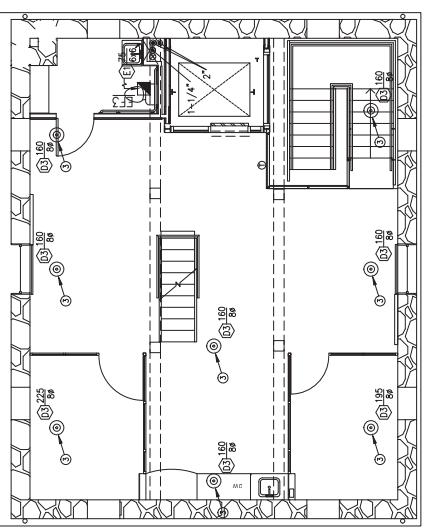
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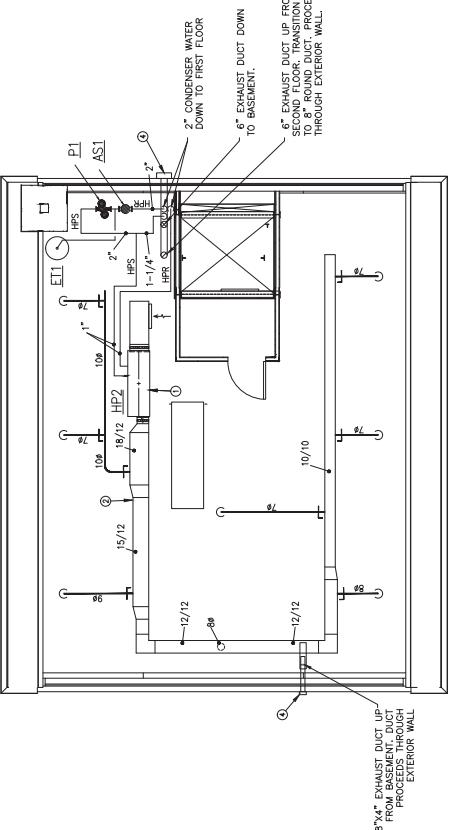
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**BUILDING 504
MECHANICAL PLAN - NEW WORK - THIRD FLOOR**

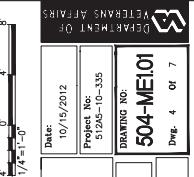
SCALE: $1/4'' = 1'-0''$



**BUILDING 504
MECHANICAL PLAN - NEW WORK - THIRD FLOOR**

SCALE: $1/4'' = 1'-0''$

NEW WORK NOTES	
①	HORIZONTAL GEOTHERMAL HEAT PUMP ON THIRD FLOOR. PROVIDE ASSOCIATED DUCTWORK INSULATION, CONDUITS, AND SUPPORTS. SEE SHEET M-503 FOR WELL FIELD LOCATION.
②	SUPPLY DUCT ABOVE.
③	LOCATE ROUND DIFFUSER BETWEEN JOISTS. BOTTOM OF GRILLE TO BE BELOW CEILING JOIST. SEE DETAIL ON DWG ME-104 FOR MORE INFORMATION.
④	PROVIDE WALL CAP FOR EXHAUST.



FINAL

Drawing Title:		RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: Chief, Facilities and Engineering:		Date: 10/15/2012	Project No.: 51245-10-335
Approved: Associate Chief for Maintenance and Operations, Perry Point:		Drawing No.: 504-ME101	DRAFTER:
Approved: Associate Director for Operations:		Building No.: 504	Checked: RL
Approved: Director, Medical Center:		Location: FERRY POINT MARYLAND	Drawn: 4 Of 7

Drawing Scale: AS NOTED		Drawing Title: MECHANICAL PLAN NEW WORK SECOND FLOOR & THIRD FLOOR	
Receiving Sheet Date: 07/07/2012		Approved: Associate Director for Operations:	
Drawing Plan Date: 10/15/2012		Approved: Director, Medical Center:	
Drawing Approved: JOE BRANCH			
 820 K Street, NW, Suite 600 Washington, DC 20006 Phone: 202-223-2334 Fax: 202-223-6722			

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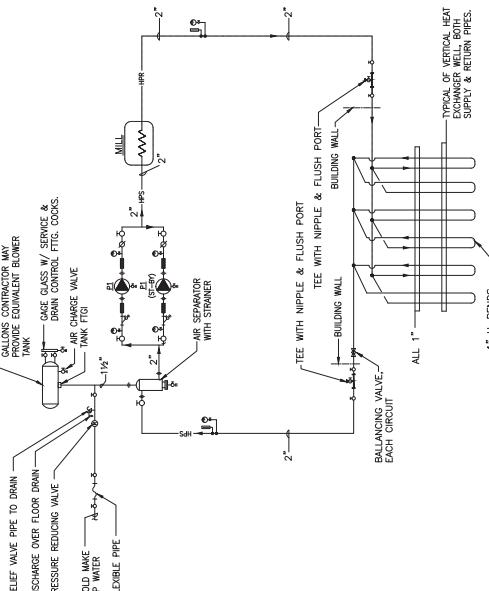
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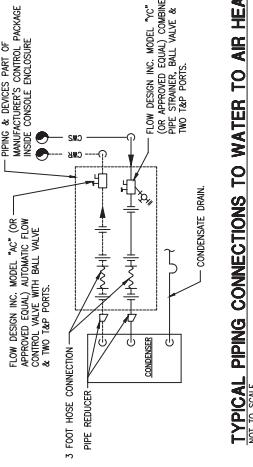
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**DIAGRAM OF EARTH COUPLED
HEAT PUMP PIPING SYSTEM**

NOT TO SCALE

TYPICAL PIPING CONNECTIONS TO WATER TO AIR HEAT PUMP



NOT TO SCALE

SEQUENCE OF OPERATION

CONSIDER. WATER. COLD.

The DDC control system shall provide start/stop and proof of the condenser water pump. The pump is enabled for heating, cooling or dehumidification, when water to air heat pump(s) (if any).

SCOOLED DESSOL.

HEATING/COOLING OPERATION SHALL BE CONTROLLED BY THE DDC SYSTEM. SENSOR WILL MANIN A ZONE TEMPERATURE ADJUSTED FOR HEATING OR COOLING. OPTIMUM STARTUP OF THE DDC SYSTEM SHALL OCCUR TO WAKE UP ZONE TEMPERATURE AT SET POINT BY OCCUPANCY TIME. AS THE SPACE TEMPERATURE BEGINS TO RISE ABOVE THE COOLING SET POINT (ADJUSTABLE), AS SENSED BY THE ROOM TEMPERATURE SENSOR, THE DDC SYSTEM WILL ACTIVATE THE FAN, COMPRESSOR AND COOLING SEPPMENT (ADJUSTABLE). THE DDC SYSTEM WILL DE-ENERGIZE THE FAN, COMPRESSOR AND REVERSING VALVE. AS THE SPACE TEMPERATURE BEGINS TO DROP BELOW THE HEATING SET POINT (ADJUSTABLE), AS SENSED BY THE ROOM SENSOR, THE DDC SYSTEM WILL ENERGIZE THE FAN AND COMPRESSOR FOR MECHANICAL HEAT. ONCE THE MECHANICAL HEAT IS PROVIDED, AS SENSED BY THE ROOM SENSOR, THE DDC SYSTEM WILL DE-ENERGIZE THE FAN AND COMPRESSOR. AS SENSED BY THE ROOM SENSOR, THE DDC SYSTEM WILL ACTIVATE THE FAN AND COMPRESSOR AGAIN. THIS CYCLE WILL REPEAT UNTIL THE ZONE TEMPERATURE IS AT THE DESIRED SET POINT (ADJUSTABLE).

OPERATING THE DDC SYSTEM THROUGH THE ROOM SENSOR TO MANAGE THE DDC SYSTEM, DURING THE COOLING PERIOD, THE ROOM TEMPERATURE SENSOR SHALL TURN SYSTEM ON FOR AN OVERLAP PERIOD (ADJUSTABLE) IN THE UNCOOLED PERIOD.

RESTRICT OF HUMES AFTER POWER SWITCWN/FAUSE

DDC SYSTEM SHALL PROVE FOR A TIME SEQUENCED RESTART OF UNITS TO LIMIT ELECTRICAL POWER SURGE (ADJUSTABLE).

Drawing Title:		Project Name:	
HVAC SCHEDULES		RENOVATE MANSION HOUSE & GRIST MILL VA MEDICAL CENTER	
PIPE DIAGRAMS & CONTROLS			
Approved: Chief, Facilities and Engineering:		Building No:	504
Approved: Associate Chief for Maintenance and Operations, Party Point:		Checked:	RL
		Drawn:	
		Date:	10/15/2012
		Project No:	51245-10-335
		Drawing No:	504-ME102
		Location:	FERRY POINT MARYLAND

BES DESIGN/BUILD	Drawing Scale: AS NOTED
	Receiving Sheet Date: 07/07/2012
	Drawing Print Date: 10/15/2012
	Drawing Approved: JOE BRANCH

FINAL	
Project Title: RENOVATE MANSION HOUSE & GRIST MILL VA MEDICAL CENTER	
Building No:	504
Checked:	RL
Drawn:	
Date:	10/15/2012
Project No:	51245-10-335
Drawing No:	504-ME102
Location:	FERRY POINT MARYLAND

DRAFTERS NAME: 504-ME102-D	
DEPARTMENT: MECHANICAL	
DATE: 10/15/2012	
DRAWING NO: 504-ME102	
PAGE NO: 5 OF 7	

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PUMP SCHEDULE

No.	SERVICE	TYPE	GPM	HEAD FT.	FLUID	MOTOR H.P.	RPM	VOLT./A	REMARKS
P1	GEOTHERMAL LOOP	VERTICAL INLINE DUAL ARM	18.7	50	20% PROPYLENE GLYCOL	0.75	1200	208/5	ANSISTRONG SERIES 4320, 36x10

NOTE:

1. BASIS OF DESIGN: ANSTRONG DIN. 2. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION.
 PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL CAPACITY AND QUALITY.

WATER TO AIR HEAT PUMP SCHEDULE (GEO THERMAL)

UNIV. DESIGNS.	CONFNC.	UA	CM	E.S.P.	FAN	COOLING						HEATING						ELECTRICAL																		
						W.H. TOTAL	W.G.	ER	MBH	MBH REJECT	ENT. AIR °F	LB/W	F DB °F	MBH CAPACITY	KW INPUT	MBH HEAT PUMP KW	OP. E.M.I. °F	LEAVING AIR °F DB °F	WATER E.M.I. °F	WATER LEAVING AIR °F DB °F	COMPRESSOR VOLT./PH	COMPRESSOR NO.	F.L.A. EA.	F.L.A. EA.	WATER P.L.D. FT.	BASIS OF DESIGN CARRIER*	NOTE									
HP-1	VERT.	300	1825	0.50	15.4	64.5	46.8	78.9	77.8	66	56.6	55.5	77	90	4.2	61	41.9	3.6	4.4	37.0	30.1	61.0	83.0	208/1	1	25.6	118	1	6.9	32.5	39	60	12.1	6.3	50P0064-BR3D122	12.3
HP-2	HORIZ.	225	1250	0.50	16.4	58.1	27.1	46.1	78.2	66.1	60.2	57.2	77	91	2.3	33.2	26	2.1	4.6	37.0	29.1	60.2	82.2	208/1	1	16.7	82	1	3.9	20.6	25	40	6.6	7.2	50PHBRN3D122	12.3

NOTES:
 1. PROVIDE ONE INCH THICK THROWWAY FILTERS.

2. ALL PERFORMANCE DATA SHOULD BE RATED IN ACCORDANCE WITH ARI-350, ARI-SO-1, 12.5-81 STANDARDS.

3. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION.

PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL CAPACITY AND QUALITY.

REGISTER, LOUVER & GRILLE SCHEDULE

MARK	TYPE	SERVICE	BLOW	REMARKS/NOTES									
D1	LINEAR CEILING DIFFUSER	SUPPLY	2-WAY	WITH GRID.	FLUSH MOUNTED FRAME, MAX. NS30								
D2	LINEAR FLOOR REGISTER	SUPPLY	2-WAY	WITH GRID.	FLUSH MOUNTED FRAME, MAX. NS30								
D3	LINEAR DUCT SICKES	SUPPLY	360	REFL. GRID.	FORCED REGISTER, NS30								
R1	RETURN DUCT SICKES	RETURN		REFL. GRID.	REFL. GRID.	INDICATED 45° ANGLED VAVES-ALUMINUM.							
E1	FIXED ANGLED VANES	LAT-IN TYPE			RETURN OR EXHAUST REGISTER IS SURFACE MOUNTED FRAME, MAX. NS30								
	EXHAUST REGISTER SICKES	EXHAUST			NO GRID.								
	ROTATING ANGLED VANES	ROTATING ANGLED VANES			NO GRID.								
	SURFACE MOUNTED												

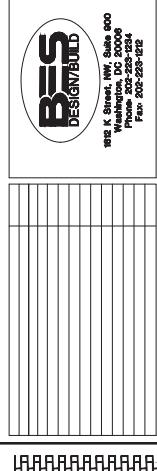
EXHAUST FAN SCHEDULE

SYMB.	AREA SERVED	CMF	SP. IN. H ₂ O	SP. IN. H ₂ O	ELECT. V.A./H ₂ /HZ	SONES MOUNT	POWER (W)	DESIGN BASED MFG. & MODELS OR LOCAL NOTES
E1	RESTROOM	75	0.50	560	120/1/60	3.1	CEILING	80 GREENBIRD MODEL SF-B110
E2	RESTROOM	75	0.50	560	120/1/60	.11	CEILING	80 GREENBIRD MODEL SF-B110
E3	RESTROOM	75	0.25	700	120/1/60	2.3	CEILING	50 GREENBIRD MODEL SF-B110

NOTES:

1. PROVIDE BACKDRAFT DAMPER AND BIRD SCREEN AND WALL CAP.

2. BASIS OF DESIGN. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL PERFORMANCE AND QUALITY.



BES
DESIGN-BUILD
1800 K Street, NW Suite 800
Washington, DC 20006
Phone: (202) 223-2334
Fax: (202) 223-9212

Drawing Scale:	AS NOTED		
Receiving Sheet Date:	07/07/2012		
Drawing Print Date:	10/15/2012		
Drawing Approved:	JOE BRANCH		

[Signature]

FINAL		Drawing Title: HVAC SCHEDULES		Project Title: RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: Chief, Facilities and Engineering:		Approved: Associate Chief for Maintenance and Operations, Ferry Point:		Approved: Associate Director for Operations:	
Checklist:	RD	Drawn:	RD	Approved:	RD
Building No:	504	Checked:	RD	Approved:	RD
Location:	FERRY POINT MARYLAND				
Date:	10/15/2012				
Project No:	51245-10-335				
Drawing No:	504-ME103				
Drawn:	6	of	7		

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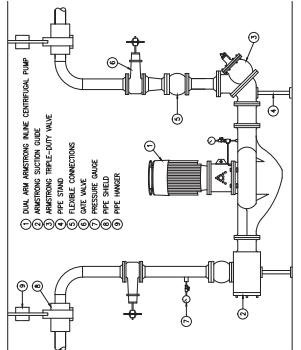
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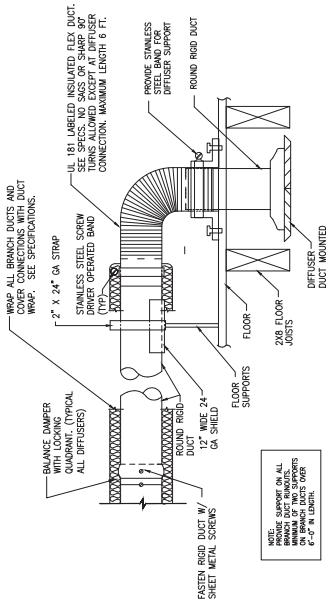
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INLINE CENTRIFUGAL PUMP DETAIL

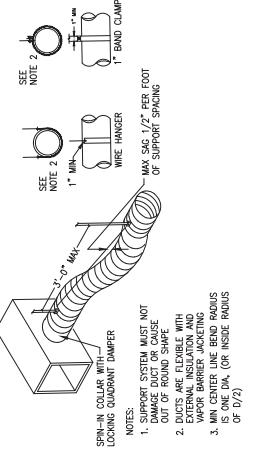
NET TO SCALE

* MANUFACTURER'S MODEL NUMBERS ARE PROVIDED FOR
BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT
THE USE OF EQUIPMENT IF EQUAL QUALITY EQUIPMENT
IS NOT AVAILABLE.



DIFFUSER CONNECTION

SCALE: NTS



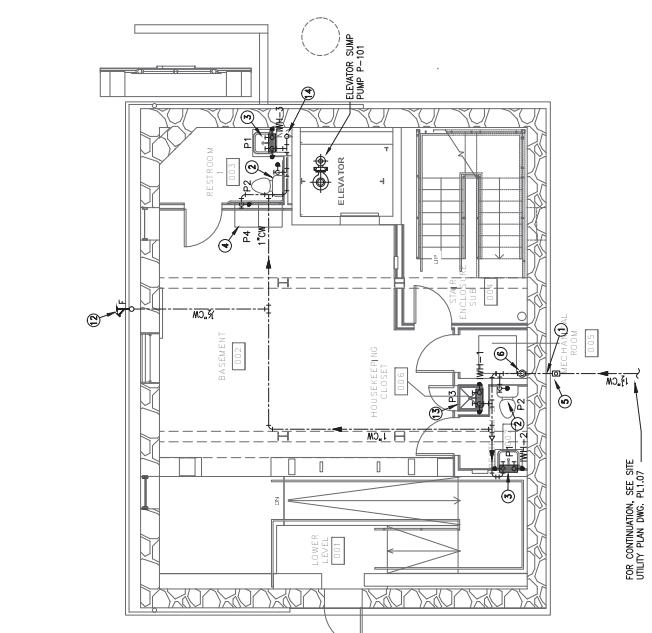
STRAIGHT SECTION FLEXIBLE DUCT

SCALE: NTS

FINAL

Drawing Title: MECHANICAL DETAILS		Project Title: RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: Chief, Facilities and Engineering:	Approved: Associate Chief for Maintenance and Operations, Perry Point:	Building No: 504	Drawn: RLD
		Approved: Associate Director for Operations:	Checked: RLD
		Approved: Director, Medical Center:	Drawn: TF
			Location: FERRY POINT MARYLAND
Drawing State: AS NOTED	Review Sheet Date: 07/07/2012	Drawing Print Date: 10/15/2012	Drawing Approved: JOE BRANCH
	182 K Street, NW, Suite 600 Washington, DC 20006 Phone: 202-223-2334 Fax: 202-223-9722		

Approved: Chief, Facilities and Engineering:	Approved: Associate Chief for Maintenance and Operations, Perry Point:	Building No: 504	Drawn: RLD
		Approved: Associate Director for Operations:	Checked: RLD
		Approved: Director, Medical Center:	Drawn: TF
Drawing State: AS NOTED	Review Sheet Date: 07/07/2012	Drawing Print Date: 10/15/2012	Drawing Approved: JOE BRANCH
	182 K Street, NW, Suite 600 Washington, DC 20006 Phone: 202-223-2334 Fax: 202-223-9722		

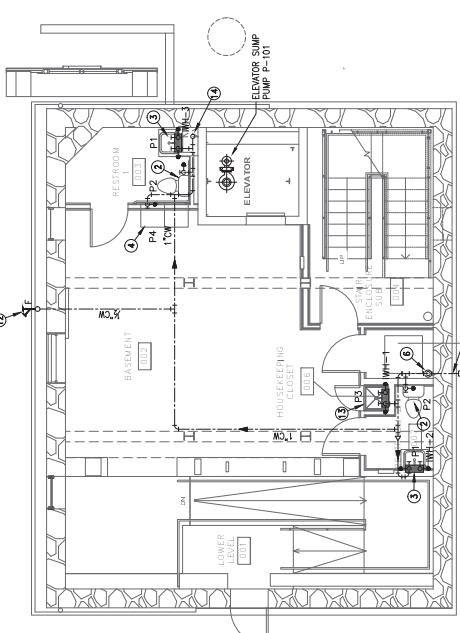
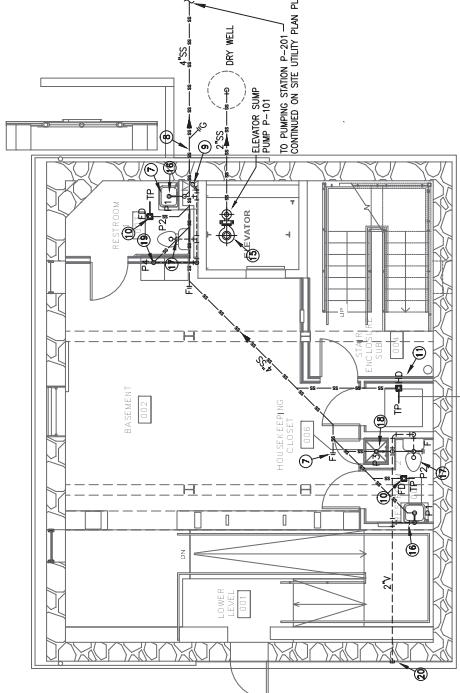


**BUILDING 504
BASEMENT - PLUMBING WATER NEW WORK**

Scale: 1/4" = 1'-0"

GENERAL PLUMBING NOTES	
1.	DO NOT SCALE PLANS, ROUNDING TO BE PERFORMED FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURERS DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FINISHES.
2.	PROVIDE COPPER PIPING (TYPE K OR L) FOR ALL NEW HOT & COLD PORTABLE WATER LINE SIZE AS INDICATED ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3.	THE PLUMBING SYSTEM SHALL CONFORM TO INTERNATIONAL PLUMBING CODE 2006. HOT WATER PIPING AND SUPPLY PIPING SHALL HAVE A MAXIMUM TEMP OF 120 DEG. FOR HOT WATER PIPING AND 140 DEG. FOR COLD WATER PIPING. IF ANY PORTABLE APPLIANCES OR EQUIPMENT SPECIFICALLY REQUIRE HIGHER TEMPERATURE WATER SUPPLY, PLACE COMPRESSOR SO THAT IT IS EASILY ACCESSIBLE AND REMOVABLE FOR MAINTENANCE.
4.	COORDINATE PLUMBING PIPING WITH AIR CONDITIONING DUCTS AND ELECTRICAL CONDUITS.
5.	PLACE PLUMBING PIPING WITH AIR CONDITIONING DUCTS AND ELECTRICAL CONDUITS.
6.	COORDINATE PLUMBING PIPING WITH AIR CONDITIONING DUCTS AND ELECTRICAL CONDUITS.
7.	CONTRACTOR SHALL VERIFY DISTANCE TO CONNECTION TO EXISTING UTILITIES.

NEW WORK KEPT NOTES	
①	1" DOMESTIC WATER ENTRANCE FROM P.O.C. PROVIDE WATER CLOSET & CW PIPING (1"), SEE "NEW FIXTURE SCHEDULE" FOR ADDITIONAL INFORMATION AND ARCHITECTURAL DRAWINGS.
②	PROVIDE HOT WATER & CW PIPING (1/2") TO NEW WALL-MOUNTED SANITARY SINK IN BATHROOM. HOT WATER TO BE PROVIDED BY INSTANTANEOUS WATER HEATER. HOT WATER LINE SHALL NOT EXCEED 10 FT. MAX. DIA. 1/2". MAX. HEAD 15 FT. MAX. FLOW RATE 1.5 GPM. NO DROPS OR BENDS. NO TURNS < 90°. NO VALVES OR CHECK VALVES.
③	GRADE AT BUILDING 1FT. LINE CORE DRILL FOUNDATION OR PROVIDE SLEEVE FOR SANITARY SEWER. NO DROPS OR BENDS. NO TURNS < 90°. NO VALVES OR CHECK VALVES.
④	PROVIDE CW PIPING (1/2") TO MOP SINK. HOT WATER TO BE PROVIDED BY INSTANTANEOUS WATER HEATER.
⑤	PROVIDE NEW WATER METER.
⑥	PROVIDE BACKFLOW PREVENTOR AND CHECK VALVE. LOCATE IN INSIDE BLDG.
⑦	PROVIDE 4" SANITARY SEWER FLOOR CLEAN-OUT (F). LOCATE APPROXIMATELY AS SHOWN.
⑧	GRADE AT BUILDING 1FT. LINE CORE DRILL FOUNDATION OR PROVIDE SLEEVE FOR SANITARY SEWER. NO DROPS OR BENDS. NO TURNS < 90°. NO VALVES OR CHECK VALVES.
⑨	PROVIDE CW PIPING (1/2") TO NEW WATER COOLER. ROUTE PROVIDED BY INSTANTANEOUS WATER HEATER.
⑩	3" DIA. DRAIN WITH WATER SAVER TRAP PRIMER. SEE DETAIL SHEET 504-14171A FOR EXACT LOCATION.
⑪	3" DIA. DRAIN WITH WATER SAVER TRAP PRIMER. SEE DETAIL SHEET 504-14171B FOR EXACT LOCATION.
⑫	RECESSSED 1/2" HOSE BIB (FROSTPROOF).
⑬	PROVIDE HW & CW PIPING (1/2") TO NEW WATER COOLER. ROUTE PROVIDED BY INSTANTANEOUS WATER HEATER.
⑭	PROVIDE SANITARY SEWER (4") & VENT (2") FROM LAUNDRY. ROUTE PIPE APPROXIMATELY AS SHOWN.
⑮	PROVIDE SANITARY SEWER (2") FROM NEW WATER COOLER. ROUTE APPROXIMATELY AS SHOWN.
⑯	PROVIDE SANITARY SEWER (2") FROM NEW WATER COOLER. ROUTE APPROXIMATELY AS SHOWN.
⑰	PROVIDE SANITARY SEWER (2") FROM NEW WATER COOLER. ROUTE APPROXIMATELY AS SHOWN.
⑱	SANITARY SEWER (2") VENT THROUGH WALL. HOLD VENT PIPE TIGHT TO FLOOR JOIST & UNDERSIDE OF FLOOR.



LEGEND

①	NEW WORK NOTE (SEE SCHEDULE)
F	POINT OF CONNECTION (P.O.C.)
—	SANITARY SEWER CLEANOUT (FLOOR)
G	SANITARY SEWER CLEANOUT (GRADE)
W	SANITARY SEWER CLEANOUT (WALL)
—>	ISOLATION VALVE
R	REDUCER
H	WATER HAMMER ARRESTOR
—	NEW COLD WATER
SS	NEW SANITARY SEWER
—	NEW SS VENT PIPING
—	EXIST. SANITARY SEWER
V	EXIST. WATER
FD	NEW FLOOR DRAIN W/ TRAP PRIMER
HD	NEW HUB DRAIN W/ TRAP PRIMER
TP	COLD WATER
HW	HOT WATER
IWH	INSTANTANEOUS WATER HEATER
P.O.C.	P.O.C.
SS	SS
VTR	VENT THRU ROOF

FINAL

Approved: <i>Chief, Facilities and Engineering:</i>	Project Title: THE GRIST MILL
Approved: <i>Associate Chief for Maintenance and Operations, Perry Point:</i>	New Work - WATER/DWV BASEMENT
Drawing Start Date: 07/07/2012	Approved: Associate Director for Operations:
Drawing Finish Date: 10/15/2012	Building No.: 504
Drawing Approved: 10/15/2012	Checked: RLD
Drawing Approved: JOE BRANCH	Drawn: JLL
Location: PERRY POINT MARYLAND	Approved: Director, Medical Center:
Date: 10/15/2012	Drawn: 1 of 8
Project No.: 515-1-D-335	Drift ID: 504-PL100
Comments: 504-PL100.DWG	Comments: 504-PL100.DWG

Drafting Scale: AS NEEDED	
Review Start Date: 07/07/2012	
Review Finish Date: 10/15/2012	
Drawing Approved: JOE BRANCH	
Comments: 504-PL100.DWG	

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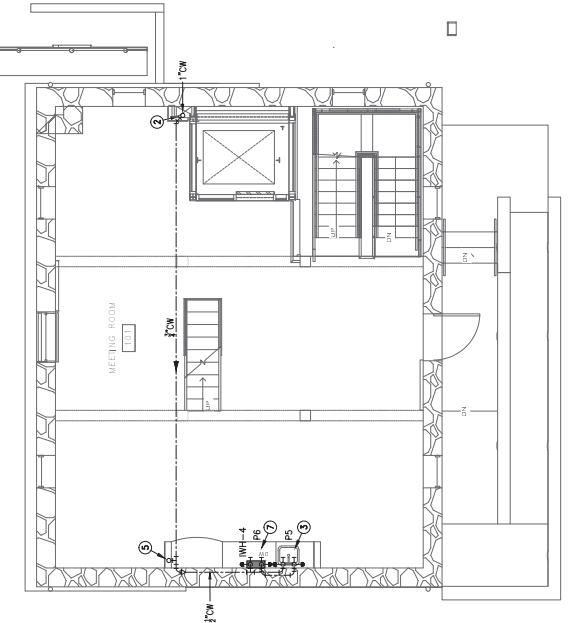
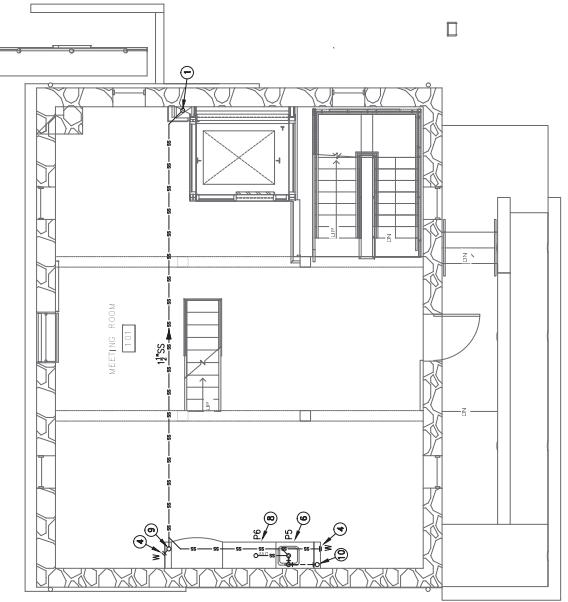
0' 0" 0' 2" 0' 4" 0' 6" 0' 8" 0' 10" 0' 12" 0' 14" 0' 16" 0' 18" 0' 20" 0' 22" 0' 24" 0' 26" 0' 28" 0' 30" 0' 32" 0' 34" 0' 36" 0' 38" 0' 40" 0' 42" 0' 44" 0' 46" 0' 48" 0' 50" 0' 52" 0' 54" 0' 56" 0' 58" 0' 60" 0' 62" 0' 64" 0' 66" 0' 68" 0' 70" 0' 72" 0' 74" 0' 76" 0' 78" 0' 80" 0' 82" 0' 84" 0' 86" 0' 88" 0' 90" 0' 92" 0' 94" 0' 96" 0' 98" 0' 100"

NEW WORK KEPT NOTES

- ① SANITARY SEWER (4") DN. FROM 2ND FLOOR, SS VENT RISER TO 3RD FLOOR (VTR).
- ② CW (1") SUPPLY TO UP FROM BASEMENT.
- ③ PROVIDE HOT, W., & CW PIPING (1/2") TO NEW COUNTERTOP LAVATORY. NOT WATER TO BE PROVIDED FOR COUNTER TOP, WHICH IS PROVIDED BY THE OWNER. PROVIDE HOT, COLD, AND COLD WATER FAUCETS. SINGLE HOLE INSTALLATION WITH POP-UP WASTE, FLOW RATE 1.5 GPM. PROVIDE NEW STOPS, AND ESCUTCHEONS.
- ④ SANITARY SEWER WALL CLEAR-OUT (W). LOCATE APPROXIMATELY AS SHOWN.
- ⑤ CW (1") SUPPLY TO UP TO 2ND FLOOR.
- ⑥ PROVIDE SANITARY SEWER (1 1/2") & VENT (2") FROM LAVATORY, ROUTE PIPING APPROXIMATELY AS SHOWN.
- ⑦ PROVIDE HW, & CW PIPING (1/2") TO NEW DISHWASHER. HOT WATER TO BE PROVIDED BY INSTANTANEOUS WATER HEATER.
- ⑧ PROVIDE SANITARY SEWER (1 1/2") TO NEW DISHWASHER. CONNECT SS DRAIN TO SINK TRAP BEFORE DISHWASHER.
- ⑨ SANITARY SEWER VENT (2") UP TO 2ND FLOOR.
- ⑩ SANITARY SEWER (1 1/2") DN. FROM 2ND FLOOR.

LEGEND

SEE DWG. PL.1.00 FOR LEGEND.



BUILDING 504
FIRST FLOOR - PLUMBING WATER NEW WORK
SCALE: 1/4" = 1'-0"

BUILDING 504
FIRST FLOOR - PLUMBING DWV NEW WORK
SCALE: 1/4" = 1'-0"

BUILDING 504	
FIRST FLOOR - PLUMBING WATER NEW WORK	
SCALE: 1/4" = 1'-0"	
Drawing Scale: AS NOTED Drawing Sheet Date: 07/07/2012 Drawing Print Date: 10/15/2012 Drawing Approved: JOE BONACH	
Drawing Title: PLUMBING PLAN NEW WORK - WATER/DWV FIRST FLOOR Approved: Chief, Facilities and Engineering: [Signature] (Red) Approved: Associate Chief for Maintenance and Operations, Perry Point: [Signature] (Red)	
Project Title: THE GRIST MILL FAIR AND RESTORATION VA MEDICAL CENTER Approved: Associate Director for Operations: [Signature] (Red) Approved: Director, Medical Center: [Signature] (Red)	
Drawing No.: 504 Checked: RLD Drawn: JLL Date: 10/15/2012 Location: FERRY POINT MARYLAND	

Drawing Scale: 1/4" = 1'-0" 	
Drawing Title: DEPARTMENT OF WATER RESOURCES Date: 10/15/2012 Project No.: 515-1-0-335 Drawing No.: 504-P1.01 Drawn: 2 Of 8	
Drawing Title: PLUMBING PLAN NEW WORK - WATER/DWV FIRST FLOOR Approved: Chief, Facilities and Engineering: [Signature] (Red) Approved: Associate Chief for Maintenance and Operations, Perry Point: [Signature] (Red)	
Project Title: THE GRIST MILL FAIR AND RESTORATION VA MEDICAL CENTER Approved: Associate Director for Operations: [Signature] (Red) Approved: Director, Medical Center: [Signature] (Red)	
Building No.: 504 Checked: RLD Drawn: JLL Date: 10/15/2012 Location: FERRY POINT MARYLAND	

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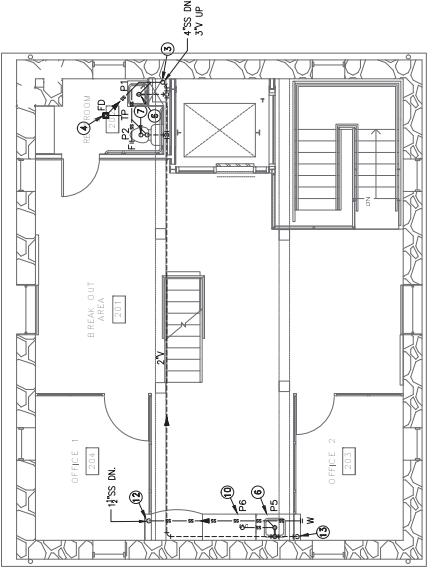
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NEW WORK KEPT NOTES

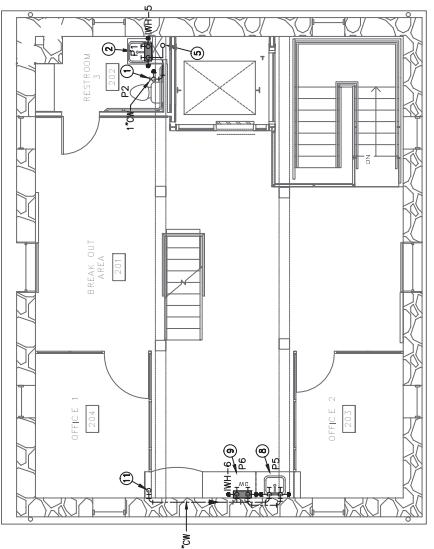
- (1) PROVIDE WATER CLOSET & CW PIPING (1"), SEE "NEW FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION AND ARCHITECTURAL DRAWINGS FOR NEW FINISHES.
- (2) PROVIDE HW, & CW PIPING (1/2") TO NEW WALL-MOUNTED WATER HEATER, CONNECTING TO EXISTING CENTERLINE. PROVIDE ALL TRAVEL FAUCETS, SINKS, AND SPOUTS WITH POP-UP WASTE, FLOW RATE 1.5 GPM. PROVIDE NEW STOPS, AND ESCUTCHEONS.
- (3) SANITARY SEWER (4") DN. TO 1ST FLOOR, SS VENT RESER (3") TO 3RD FLOOR (VTD).
- (4) 3" FLOOR DRAIN WITH WATER CLOVER TRAP PRIMER, SEE DETAIL SHEET 504-F104.
- (5) CW (1") SUPPLY UP FROM 1ST FLOOR.
- (6) PROVIDE SANITARY SEWER (4") & VENT (2") FROM LAUNDRY. ROUTE PIPE APPROXIMATELY AS SHOWN.
- (7) ROUTE PIPE APPROXIMATELY AS SHOWN.
- (8) PROVIDE HW, & CW PIPING (1/2") TO NEW COUNTERTOP LAUNDRY, CONNECTING TO EXISTING CENTERLINE. PROVIDE ALL TRAVEL FAUCETS, SINKS, AND SPOUTS WITH POP-UP WASTE, FLOW RATE 1.5 GPM. PROVIDE NEW STOPS, AND ESCUTCHEONS.
- (9) PROVIDE HW, & CW PIPING (1/2") TO NEW DISHWASHER. HOT WATER TO BE PROVIDED BY INSTANTANEOUS WATER HEATER.
- (10) PROVIDE SANITARY SEWER (4") DN. FROM DISHWASHER.
- (11) CONNECT SS DRAIN TO SINK TRAP BEFORE P-TRAP.
- (12) CW (4") SUPPLY FROM 1ST FLOOR.
- (13) SANITARY SEWER VENT (2") UP FROM 1ST FLOOR.

LEGEND

SEE DWG. BL-100 FOR LEGEND.



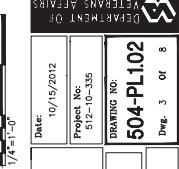
**BUILDING 504
SECOND FLOOR - PLUMBING DW NEW WORK**
SCALE: 1/4" = 1'-0"



**BUILDING 504
SECOND FLOOR - PLUMBING DW NEW WORK**
SCALE: 1/4" = 1'-0"

Drawing Scale:	AS NOTED
Revised Sheet Date:	07/07/2012
Drawing Print Date:	10/15/2012
Drawing Approved:	JOE BRANCH
BES DESIGN/BUILD 182 K Street, NW, Suite 600 Washington, DC 20006 Phone: 202-223-2334 Fax: 202-223-6122	

Drawing Title: PLUMBING PLAN NEW WORK - WATER/DWV SECOND FLOOR	
Approved: Associate Director for Operations:	
Building No:	504
Checked:	RJD
Drawn:	JLL
Project Title:	THE GRIST MILL VA MEDICAL CENTER
Date:	10/15/2012
Project No:	515-1-D-335
Drawings No:	504-PL102
Location:	PERRY POINT MARYLAND
Dwg. 3 of 8	



Design Firm Name: 504-PL102.DWG
Department of Veterans Affairs
Project Title: THE GRIST MILL VA MEDICAL CENTER
Date: 10/15/2012
Project No: 515-1-D-335
Drawings No: 504-PL102
Dwg. 3 of 8

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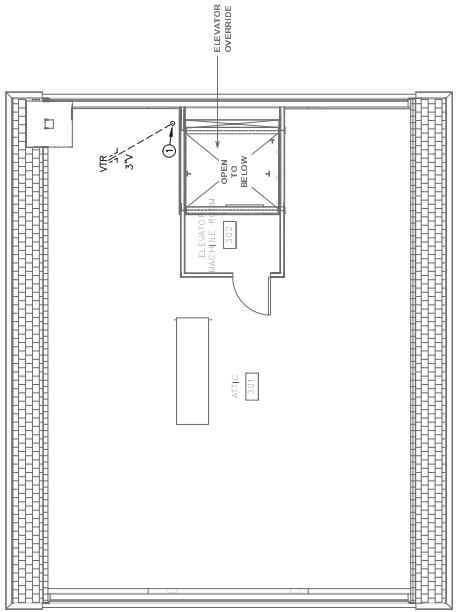
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NEW WORK KEPT NOTES

① SANITARY ENTER VENT (5") RISER FROM BASEMENT TO 3RD FLOOR
(VTR).

LEGEND

SEE DWG. PL.100 FOR LEGEND.

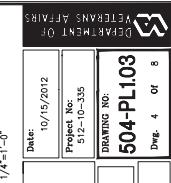


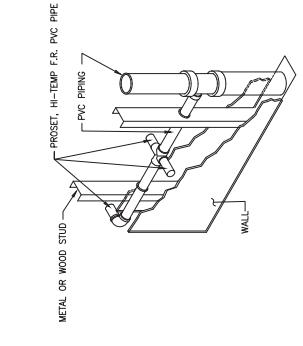
NO PLUMBING WATER NEW WORK ON THIRD FLOOR.

**BUILDING 504
THIRD FLOOR - PLUMBING DWV NEW WORK**
SCALE: 1/4"-1'-0"

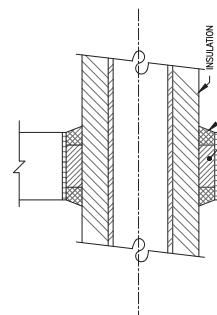
FINAL		Project Title: THE GRIST MILL REPAIR AND RESTORATION VA MEDICAL CENTER	
		Date: 10/15/2012	Project No.: 515-1-D-355
		Drawing No.: 504	Drawn by: JLL
		Checked by: RLD	Reviewed by:
		Approved by: Medical Center:	Location: FERRY POINT MARYLAND
Drawing Title: PLUMBING PLAN NEW WORK - WATER/DWV THIRD FLOOR		Approved: Chief, Facilities and Engineering:	
		Approved: Associate Chief for Maintenance and Operations, Perry Point:	
		Approved: Associate Director for Operations:	
		Approved: Director, Medical Center:	

BES DESIGN/BUILD
182 K Street, NW Suite 600
Washington, DC 20006
Phone: 202-223-2334
Fax: 202-223-9712
Drawing Approved: JOE BURACH

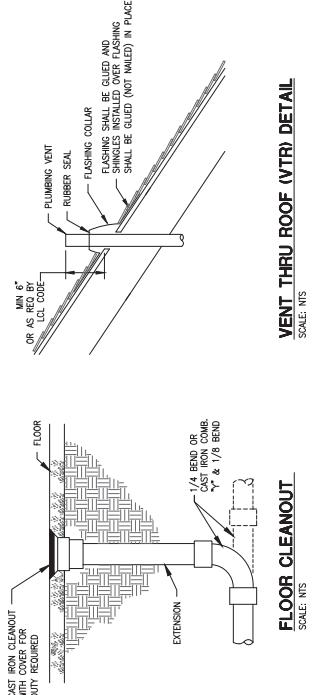




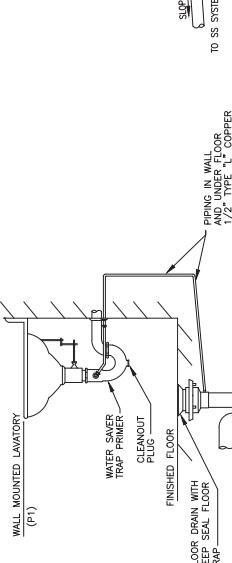
LAVATORY/SINK STUB OUTS
SCALE: NTS



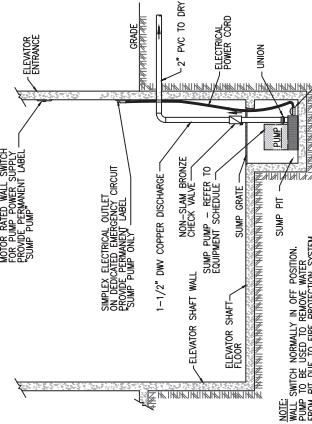
**NON FIRE-RATED
WALL/FLOOR PENETRATION**
SCALE: NTS



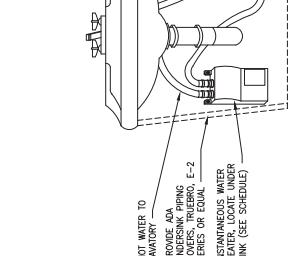
FLOOR CLEANOUT
SCALE: NTS



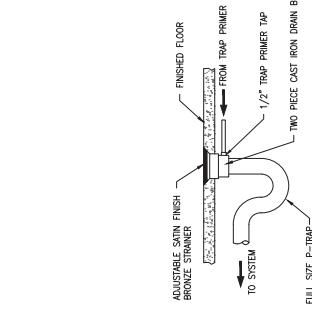
WATER SAVER TRAP PRIMER
SCALE: NTS



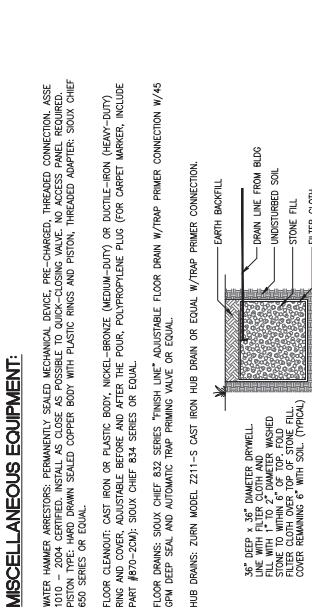
ELEVATOR PIT SUMP PUMP
SCALE: NTS



INSTANTANEOUS WATER HEATER DETAIL
SCALE: NTS



HUB DRAIN DETAIL
SCALE: NTS



FIXTURE CONNECTION SCHEDULE

SYM.	DESCRIPTION	COLD	HOT	VENT
P1	LAVATORY (WALL MOUNTED), ADA	1/2"	1/2"	1-1/4"
P2	WATER CLOSET (FLOOR MOUNTED), ADA	1"	--	4"
P3	MOP SINK	1/2"	1/2"	3"
P4	ELECTRIC WATER COOLER (8-LITER), ADA	1/2"	--	1-1/4"
P5	LAVATORY (COUNTERTOP)	1/2"	1/2"	1-1/4"
P6	DISH WASHER	1/2"	1/2"	3/4"

WATER HEATER SCHEDULE

DRYWELL DETAIL
SCALE: NTS

FINAL

504-PL104

Dwg. 5 of 8

DATE 10/15/2012

Project No.: 515-1-D-355

Drawing No.:

Approved: Director, Medical Center:

Building No.: 504

Checked: RLD

Drawn: JLL

Location: FERRY POINT
MARYLAND

Approved: Chief, Facilities and Engineering:

Approved: Associate Chief for Maintenance and Operations, Perry Point:

Approved: Associate Director for Operations:

Approved: Director, Medical Center:

Approved: Joe Branch

Approved: Chief, Facilities and Engineering:

Approved: Associate Chief for Maintenance and Operations, Perry Point:

Approved: Associate Director for Operations:

Approved: Director, Medical Center:

Approved: Joe Branch

Approved: Chief, Facilities and Engineering:

Approved: Associate Chief for Maintenance and Operations, Perry Point:

Approved: Associate Director for Operations:

Approved: Director, Medical Center:

Approved: Joe Branch

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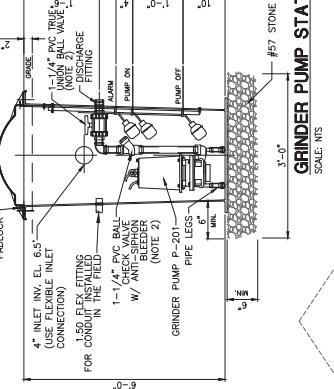
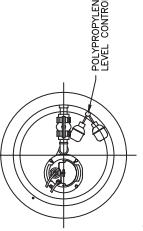
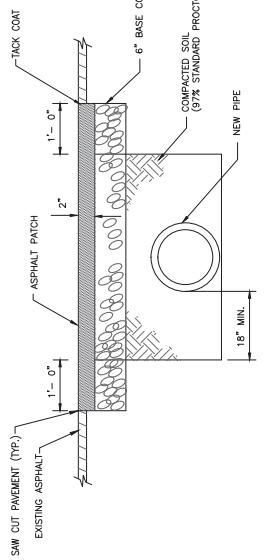
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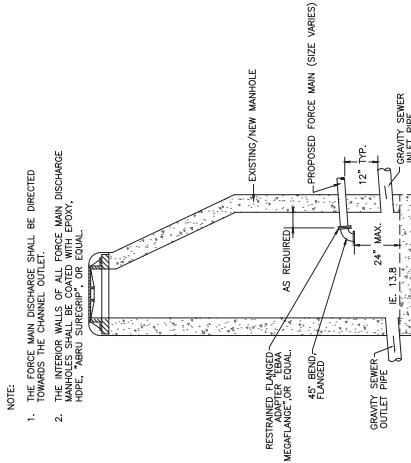
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ASPHALT PATCHING DETAIL
N.T.S.

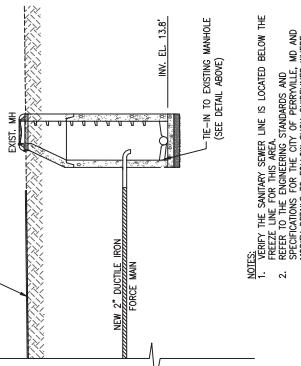


GRINDER PUMP STATION
SCALE: N.T.S.

FORCE MAIN TIE-IN TO EXISTING/NEW MANHOLE
N.T.S.



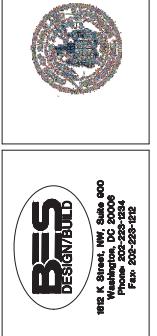
N.T.S.



NOTES:
1. ENTRY TO THE SANITARY SEWER LINE IS LOCATED BELOW THE EXISTING ROAD.
2. REFER TO THE ENGINEERING STANDARDS AND SPECIFICATIONS FOR THE CITY OF PERRYVILLE, MD, AND MARYLAND DEPARTMENT OF TRANSPORTATION, SUCH GUIDELINES WHERE APPLICABLE.
3. DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED AND CONFORM TO AWWA C111 AND RATED FOR A 100 YEAR DESIGN LIFE. DUCTILE IRON PIPES SHALL CONFORM WITH AWWA C111 AND IRON FITTINGS SHALL CONFORM WITH AWWA C103. DUCTILE IRON FITTINGS SHALL BE POLYETHYLENE LINED.
4. THRUST BLOCKS ON FORCE MAIN NOT PERMITTED.

FINAL

Project Name: THE GRIST MILL THE Grist Mill THE RESTORATION VA MEDICAL CENTER		Drawing Title: PLUMBING SANITARY SEWER DETAILS	
Approved: Chief, Facilities and Engineering:	Approved: Associate Chief for Maintenance and Operations, Perry Point:	Approved: Associate Director for Operations:	Approved: Director, Medical Center:
Date: 10/15/2012	Revised Date: 07/07/2012	Drawing No.: 504	Checked: RLD
Project No.: 515-1-D-355	Printed Date: 10/15/2012	Drawing No.: JLL	Drawn: JLL
DRAFTSHEET NO. 504-PL105		Location: PERRY POINT MARYLAND	
Dwg. 6 of 8			



Drawing Scale:	AS NOTED
Revised Scale:	AS NOTED
Revised Date:	07/07/2012
Drawing Print Date:	10/15/2012
Drawing Approved:	JOE BUCH

Form 504-PL105
DRAFTSHEET NO. 504-PL105
DEPARTMENT OF PLANNING & ZONING
MARYLAND STATE GOVERNMENT

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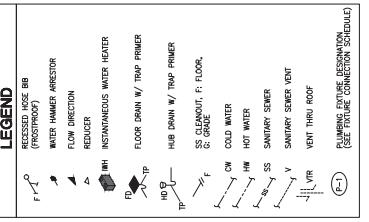
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LEGEND

NOTES:
 1. INSTALLED WATER HEATERS SHALL BE CONCEALED FROM SIGHT AND LOCATED SUCH FOR MAINTENANCE PURPOSES WHERE POSSIBLE, PROVIDE VANDA-RESISTANT ADA UNDER-SINK PIPING COVERS, TRUEBRO, E-2 SERIES OR EQUAL.
 2. USE PASTE WATER FROM LAUNDRY AS PRIMER FOR FLOOR DRAINS.
 3. RISER DIAGRAM IS INTENDED AS A SCHEMATIC AND MAY NOT TRULY REPRESENT THE ACTUAL PHYSICAL LOCATION OF COMPONENTS. REFER TO THE PLUMBING PLANS FOR MORE DETAILED INFORMATION.
 4. INSULATE ALL HOT AND COLD WATER LINES.

BUILDING 504 PLUMBING RISER DIAGRAM

SCALE: NONE

Drawing Title: PLUMBING RISER DIAGRAM Project Name: THE GRIST MILL VA MEDICAL CENTER	
Approved: Associate Director for Operations:	Building No: 504
Approved: Chief Facilities and Engineering:	Checked: RLD
Approved: Associate Chief for Maintenance and Operations, Party Point:	Drawn: JLL
Approved: Director, Medical Center:	Reviewed: RLD
Approved: Director, Medical Center:	Location: FERRY POINT MARYLAND
Drawing No: 504-PL100	Date: 10/15/2012
Drawn: 7 of 8	Project No: 515-1-D-335
Page No: 1	Page No: 1
Drawing Scale: AS NOTED	
Revised Sheet Date: 07/07/2012	
Drawing Print Date: 10/15/2012	
Drawing Approved: JOE BRANCH	
 BES DESIGN-BUILD 820 K Street, NW, Suite 600 Washington, DC 20006 Phone: 202-223-2324 Fax: 202-223-9212	

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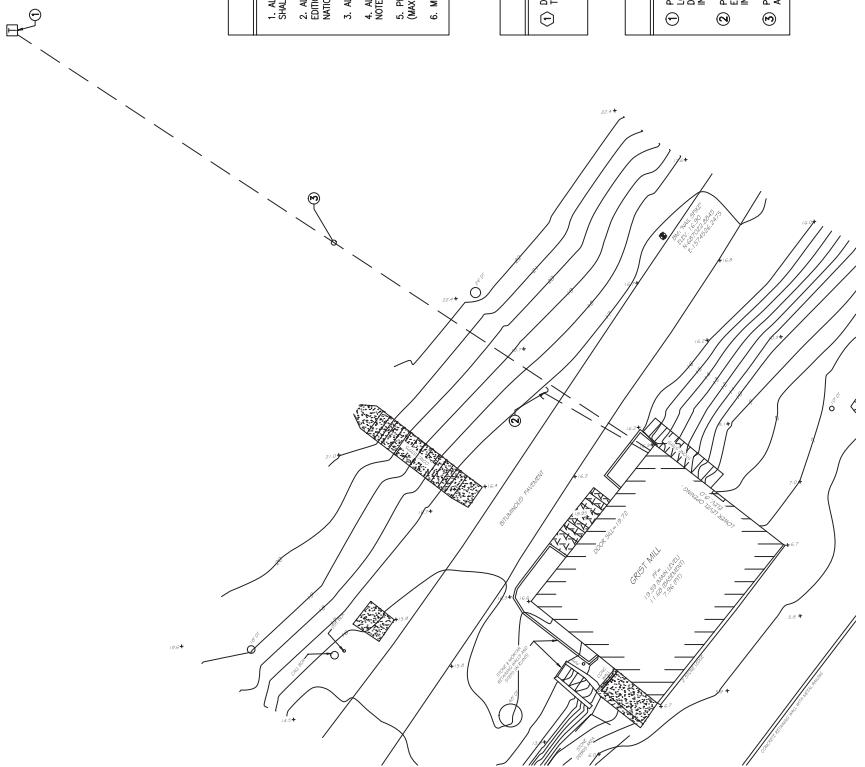
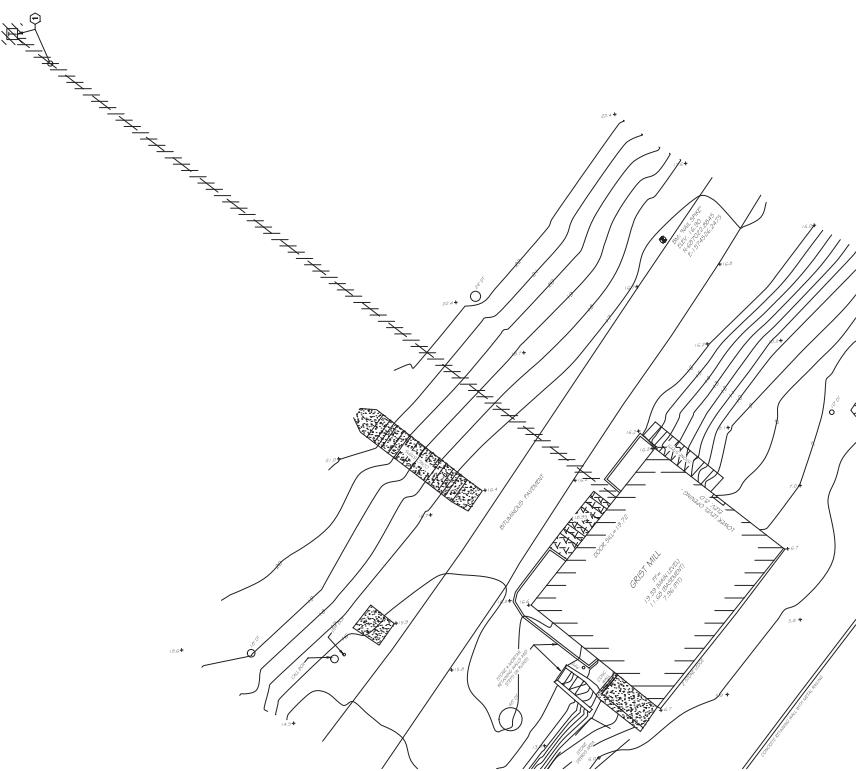
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DEMOLITION NOTES

- ① DEMOLISH EXISTING TRANSFORMER AND SECONDARY. COMPLETE EXISTING THREE PHASE PRIMARY SHALL REMAIN FOR REUSE IN NEW WORK.

NEW WORK NOTES

- ① PROVIDE NEW 1400-208Y/120, 34-60Hz, LOOPTED, DE-ENERGIZE LOW VOLTAGE COMPARTMENT. SEE Dwg 550 FOR ADDITIONAL INFORMATION. CLOSE EXISTING THREE PHASE PRIMARY.
- ② PROVIDE NEW DATA/COMM SERVICE FROM COMMUNICATIONS BOX LOCATED IN EXISTING GREENHOUSE BUILDING 41. SEE Dwg 550 FOR ADDITIONAL INFORMATION.
- ③ PROVIDE NEW UNDERGROUND SECONDARY. (4) #350 W/1/2 GND, 4°C. APPROXIMATELY 200 FEET.



Engineering
Drawing
Scale 1" = 10'
10 5 0 10 20 30
Scale in FEET

FINAL

Project Title:		RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Engineering Date:	10/15/2012	Project No.:	51245-10-335
Demolition Date:	10/15/2012	Drawing No.:	504-E5101
Approved for Operations:	Building No. 504 Checked: JJP Drawn: RWC		
Approved: Director, Medical Center:	Location: FERRY POINT MARYLAND		

Billing Scale: AS NOTED	Approved: Chief, Facilities and Engineering:
Receiving Sheet Date: 07/07/2012	Approved: Associate Chief for Maintenance and Operations, Perry Point:
Drawing Print Date: 10/15/2012	Approved: Associate Director for Operations:
Drawing Approved: JOE BRANCH	



Architectural Services	Structural Services	Mechanical Services	Electrical Services	Plumbing Services	Landscaping Services	Site Services	Other Services
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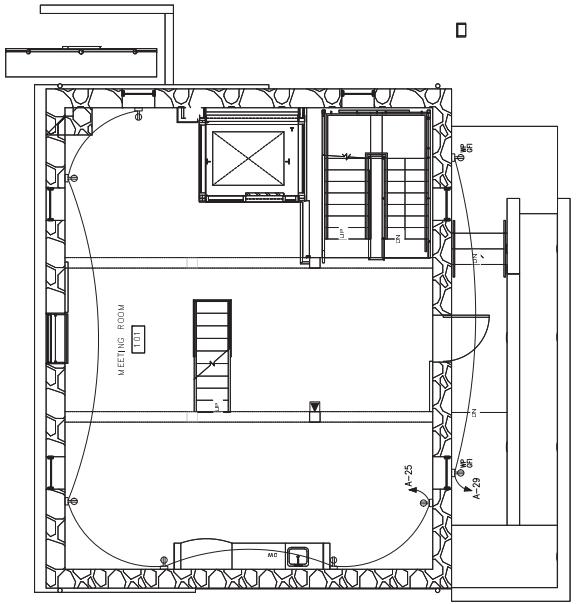
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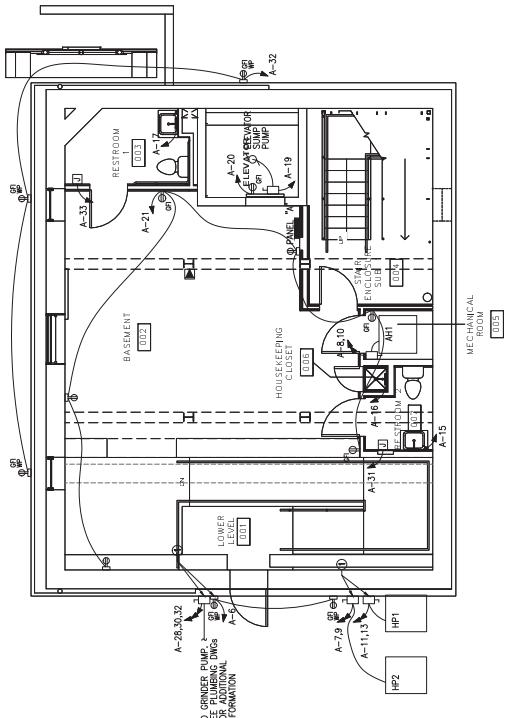
NEW WORK NOTES

(1) BOTTOM OF DISCONNECT AND RECEPTACLE SHALL BE AT ELEVATION 13 MINIMUM.



**BUILDING 504
POWER & DATA/COMM PLAN - FIRST FLOOR - NEW WORK**

**BUILDING 504
POWER & DATA/COMM PLAN - BASEMENT - NEW WORK**



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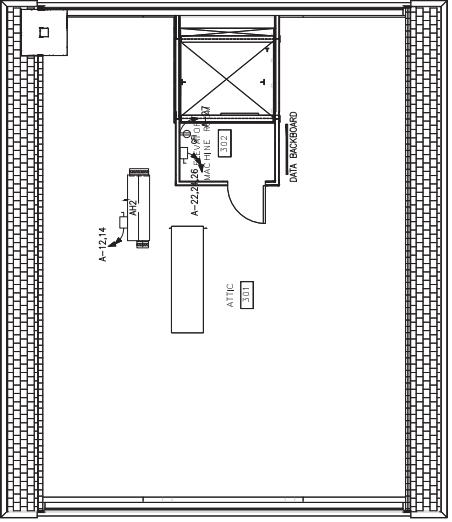
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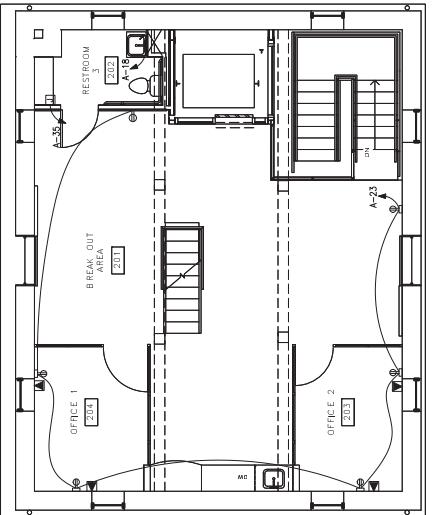
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GENERAL NEW WORK NOTES

1. ALL ELECTRICAL WIRING, CONDUIT, DEVICES, EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NESC C-2) AND THE NATIONAL ELECTRIC CODE (NEPA 70).
3. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
4. ALL INTERIOR ELECTRICAL WIRING SHALL BE IN METALLIC CONDUIT UNLESS NOTED OTHERWISE.
5. PROVIDE FLEXIBLE METALLIC CONDUIT TO ALL MOTOR OPERATED EQUIPMENT. (MAXIMUM 6' LENGTH)
6. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE.



**BUILDING 504
POWER & DATA/COMM PLAN - THIRD FLOOR - NEW WORK**
SCALE: $1/4'' = 1'-0''$



**BUILDING 504
POWER & DATA/COMM PLAN - SECOND FLOOR - NEW WORK**
SCALE: $1/4'' = 1'-0''$



GRAPHIC SCALE
 $1/4'' = 1'-0''$
4 2 0 4 8 12
SCALE IN FEET

FINAL

Drawing Title: POWER/DATA COMM PLANS SECOND & THIRD FLOORS NEW WORK		Project Title: RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: <i>Chief, Facilities and Engineering:</i>		Approved: <i>10/15/2012</i>	
Approved: <i>Associate Chief for Maintenance and Operations, Perry Point:</i>		Building No.: 504	Drawn by: JTP
Approved: <i>Associate Director for Operations:</i>		Checked by: RWC	Drawing No.: 504-FP102
Approved: <i>Director, Medical Center:</i>		Location: FERRY POINT MARYLAND	Dwg. 3 of 6



Drawing Scale: AS NOTED	Receiving Sheet Date: 07/07/2012	Drawing Finish Date: 10/15/2012	Drawing Approved: JOE BRANCH
Approved: <i>Chief, Facilities and Engineering:</i>	Approved: <i>Associate Chief for Maintenance and Operations, Perry Point:</i>	Approved: <i>Associate Director for Operations:</i>	Approved: <i>Director, Medical Center:</i>
Approved: <i>10/15/2012</i>	Approved: <i>10/15/2012</i>	Approved: <i>10/15/2012</i>	Approved: <i>10/15/2012</i>
Drawn by: JTP	Checked by: RWC	Location: FERRY POINT MARYLAND	Drawing No.: 504-FP102
Dwg. 3 of 6			

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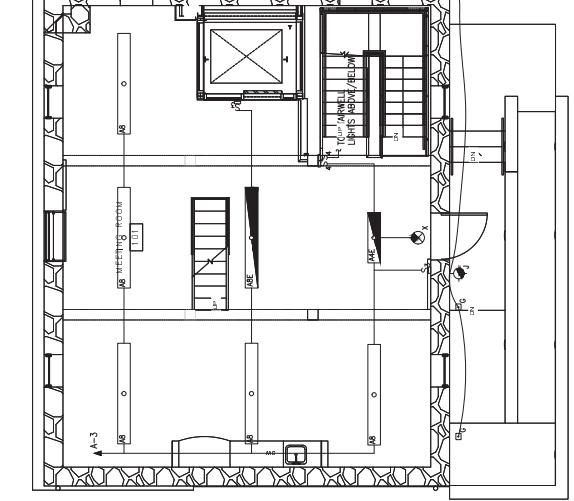
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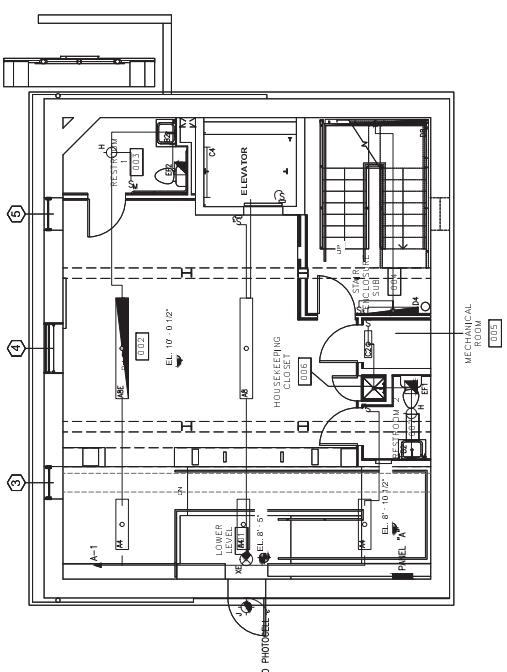
- A
1. ALL ELECTRICAL WIRING, CONDUIT, DEVICES, EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NESC) C-2) AND THE NATIONAL ELECTRIC CODE (NEPA) 70.
3. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
4. ALL INTERIOR ELECTRICAL WIRING SHALL BE IN METALLIC CONDUIT UNLESS NOTED OTHERWISE.
5. PROVIDE FLEXIBLE METALLIC CONDUIT TO ALL MOTOR OPERATED EQUIPMENT.
(MAXIMUM 6' LENGTH)
6. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE.

GENERAL NEW WORK NOTES

- B
NEW WORK NOTES
① PHOTOCELL SHALL BE MOUNTED FACING NORTH ON GABLE WALL...



BUILDING 504
LIGHTING PLAN - FIRST FLOOR - NEW WORK
SCALE: 1/4" = 1'-0"



BUILDING 504
LIGHTING PLAN - BASEMENT - NEW WORK
SCALE: 1/4" = 1'-0"



GRAPHIC SCALE
1/4" = 1'-0"
4 2 0
SCALE IN FEET

FINAL

Project Title: RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Drawing Title: LIGHTING PLANS BASEMENT & FIRST FLOORS NEW WORK	Date: 10/15/2012
Approved: Associate Director for Operations:	Building No: 504
Approved: Director, Medical Center:	Drawn by: JJP
	Checked by: RWC
	Location: FERRY POINT MARYLAND
	DRAFT NO. 504-EL101
	Drawn: 4 Of 6

Drawing Scale: AS NOTED
Receiving Sheet Date: 07/05/2012
Drawing Print Date: 10/15/2012
Drawing Approved: JOE BRANCH



BESS DESIGNBUILD
1820 K Street, NW, Suite 600
Washington, DC 20006
Phone: 202-223-2334
Fax: 202-223-6722

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A

B

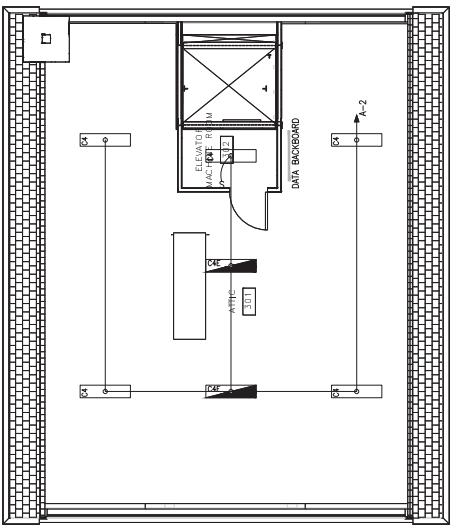
C

D

E

GENERAL NEW WORK NOTES

1. ALL ELECTRICAL WIRING, CONDUIT, DEVICES, EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRIC SAFETY CODE (IEEE C-2) AND THE NATIONAL ELECTRIC CODE (NEMA 70).
3. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
4. ALL INTERIOR ELECTRICAL WIRING SHALL BE IN METALLIC CONDUIT UNLESS NOTED OTHERWISE.
5. PROVIDE FLEXIBLE METALLIC CONDUIT TO ALL MOTOR OPERATED EQUIPMENT.
6. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE.



**BUILDING 504
LIGHTING PLAN - THIRD FLOOR - NEW WORK**

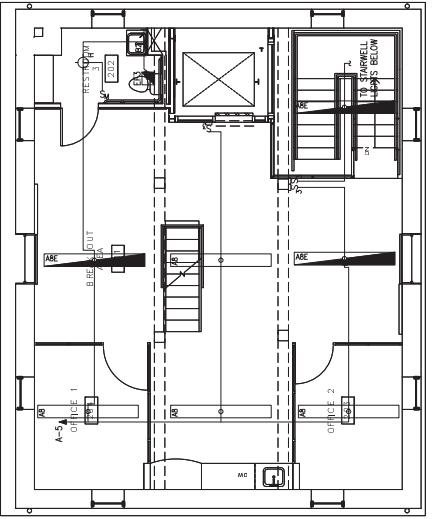
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GRAPHIC SCALE
1/4" = 1'-0"
4 2 0 4 8 12
SCALE IN FEET

FINAL

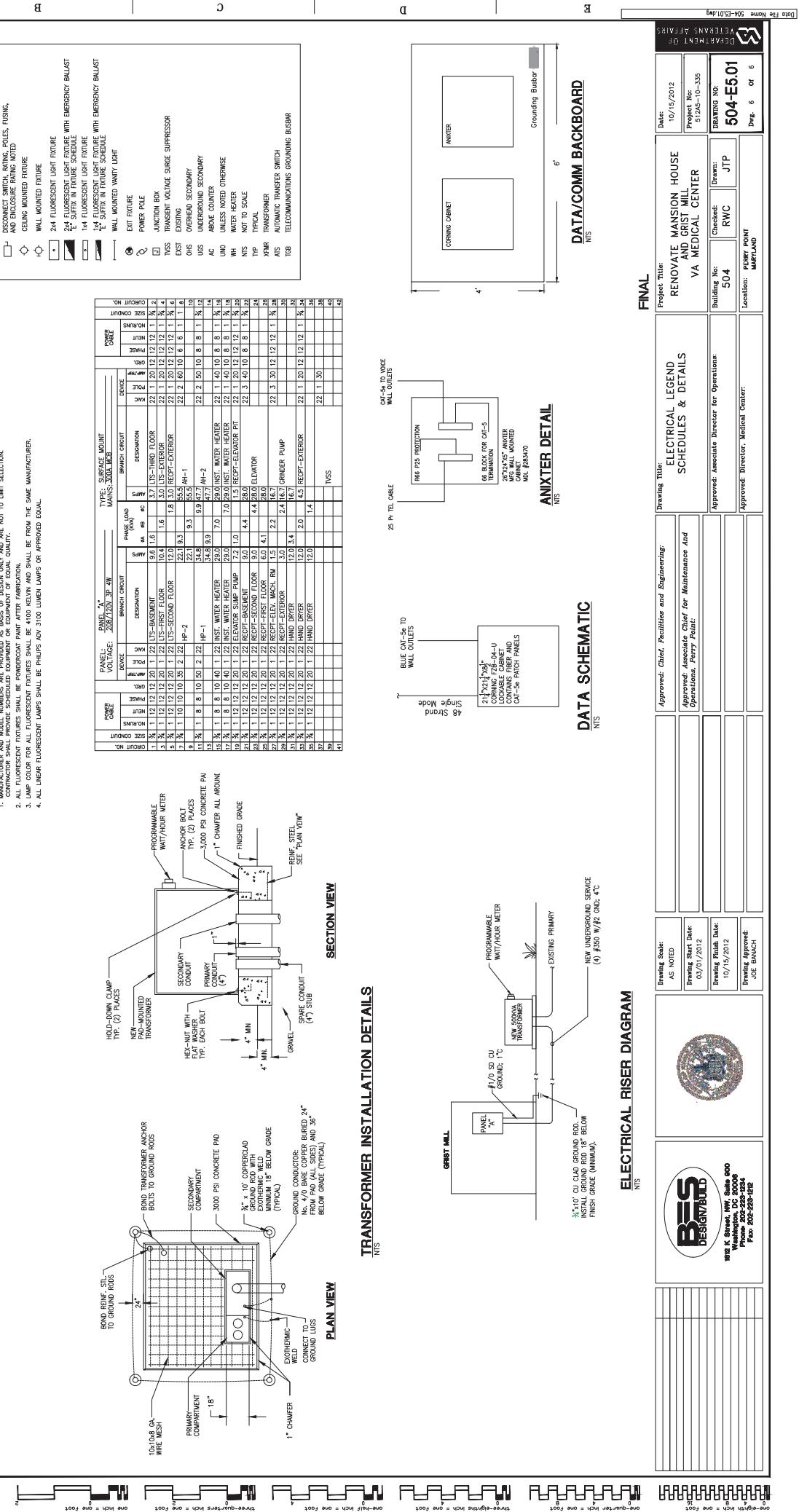
DEPARTMENT OF WATER SUPPLY AND SEWERAGE	
Date:	10/15/2012
Project No.:	51245-10-335
Drawing No.:	504-EL102
Drawn:	JTP
Checked:	RWC
Approved:	Director, Medical Center
Location:	FERRY POINT MARYLAND
DRAWING SHEET NUMBER 6 OF 6	

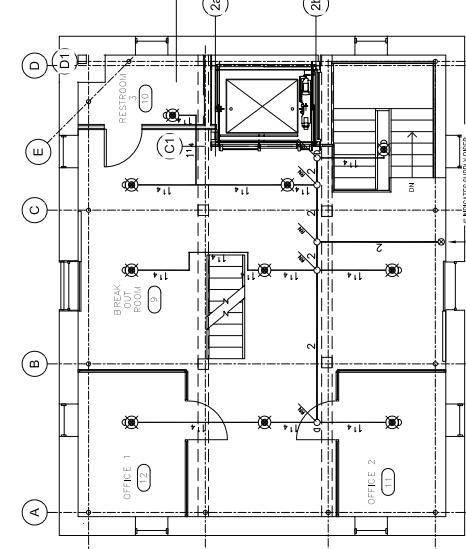
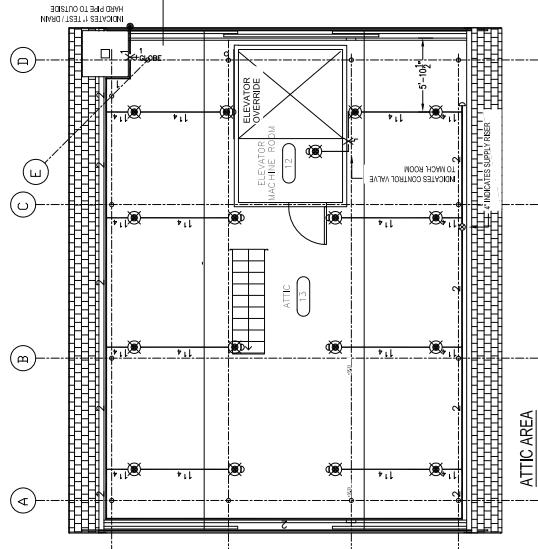
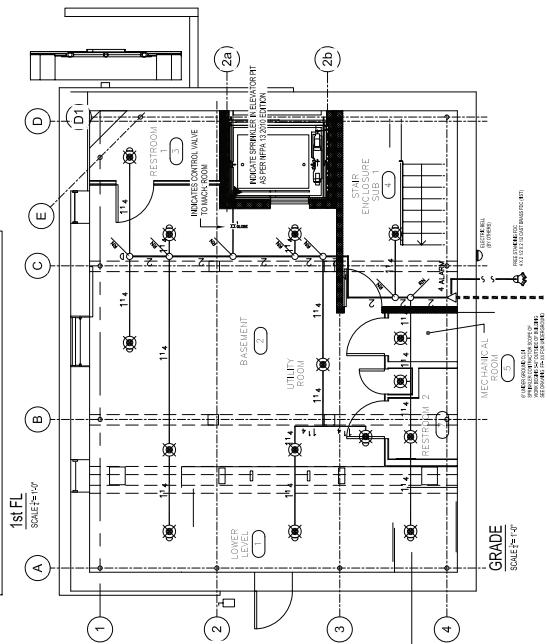
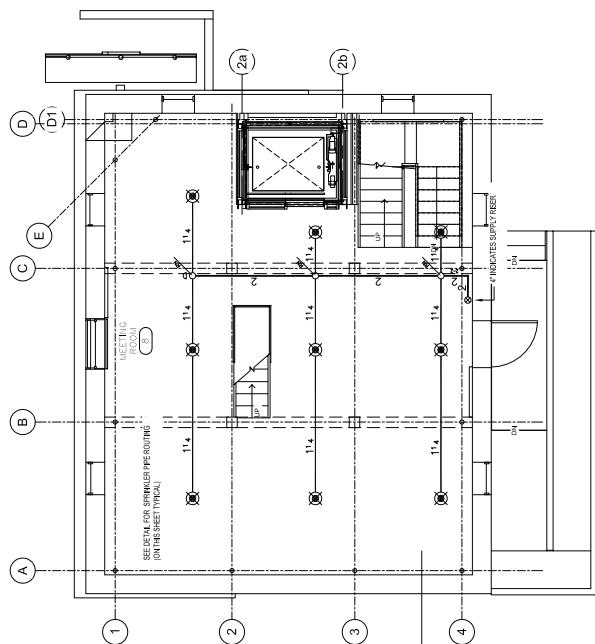


**BUILDING 504
LIGHTING PLAN - SECOND FLOOR - NEW WORK**

SCALE: 1/4" = 1'-0"

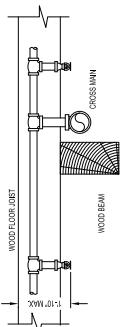
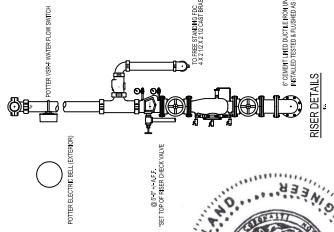






FIRE PROTECTION GENERAL NOTES:

- PRONE A FULLY AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE ENTIRE FACILITY, INCLUDING BUT NOT LIMITED TO BASEMENT, GROUND FLOOR, 1ST FLOOR, 2ND FLOOR, AND ROOF/ATTIC.
- COMPLY WITH NFPA 13-2010 EDITION AND THE NFPA DESIGN MANUAL (APRIL 2008).
- ALL SPRINKLERS SHALL BE UL LISTED AND NFPA APPROVED.
- DESIGNER/HOLDER:
- ALL REACHES SHALL BE CONSIDERED COMBUSTIBLE CONSTRUCTION.
- ALL REACHES BE MAINTAINED ABOVE 40 DEGREES F.
- LIGHT HAZARD AREAS:
- 1ST FLOOR
- 3.3.2. RESIDENTIAL GROUP I AREAS:
- BASEMENT (FIREPLACES)
- ATTIC
- WATER SUPPLY DIAULATED FOR PEEPING IS AS FOLLOWS: STATIC PSI FLOW=15PSI @ 48°F
- PSP FLOWING AT 100PSI, GAUGE HORZONAL 45°A.
- SPRINKLER CONTRACTOR TO PERFORM LOW TEST TO DETERMINE HYDRAULIC CALCULATIONS.
1. SPRINKLER HEADS AND PEEPS MUST BE SWUNG TO CONCEIVE THE SEGMENT WHERE DESIGN BECOMES INVALUABLE FOR PORTS, ETC. A HEAD OVER CANOPY MUST BE PERFORMED BEFORE PRODUCING AN ALTERNATIVE. IN PARTICULAR, THE ROOF-SLOPE AND CEILING CONSTRUCTION MUST BE VERIFIED TO ENURE A CO-COMPATIBLE TEST.
2. ALL EFFORTS MUST BE MADE TO ENSURE A PEEP PUMP IS REQUIRED, THIS MAY REQUIRE A LOOP, LARGER-FACTOR SPRINKLER HEADS OR OTHER DESIGN ALTERNATIVES.



PROFESSIONAL ENGINEER'S SIGNATURE
Daniel Schiltz Jr.
10/15/12

STATE OF MARYLAND
PROFESSIONAL ENGINEERING
EXAMINER
REGISTRATION NO. 442121
LICENSE NUMBER 442121
ISSUED 10/15/2012 EXPIRES 10/15/2015

SPRINKLER CONTRACTOR FOR THIS DESIGN:
SCHILTZ, DANIEL JR., PE
1612 K Street, NW, Suite 1000
Washington, DC 20006
Phone: (202) 333-1234
Fax: (202) 223-2121

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 366558. Expiration Date: 2013-01-25.

FINAL

DRAWING NUMBER: 366558-D04-F010		Date: 10/15/2012
PROJECT NUMBER: 504		Project Name: RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER
DRAWING NUMBER: 504-DWS		Drawn: 1
DRAWING NUMBER: 504-DES		Checked: 1
DRAWING NUMBER: 504-DRW		Drawn: 1
DRAWING NUMBER: 504-MTL		Location: PERRY POINT MARYLAND

Approved: <i>Donald Schiltz Jr., P.E.</i>	Chief, Facilities and Engineering
Approved: <i>Associate Chief for Maintenance and Operations, Perry Point</i>	As Voted
Approved: <i>Associate Director for Operations</i>	Drawing Start Date: 05/07/2012
Approved: <i>Director, Medical Center</i>	Drawing Finish Date: 10/15/2012
Approved: <i>Joe Bwach</i>	Drawing Approved: 10/15/2012

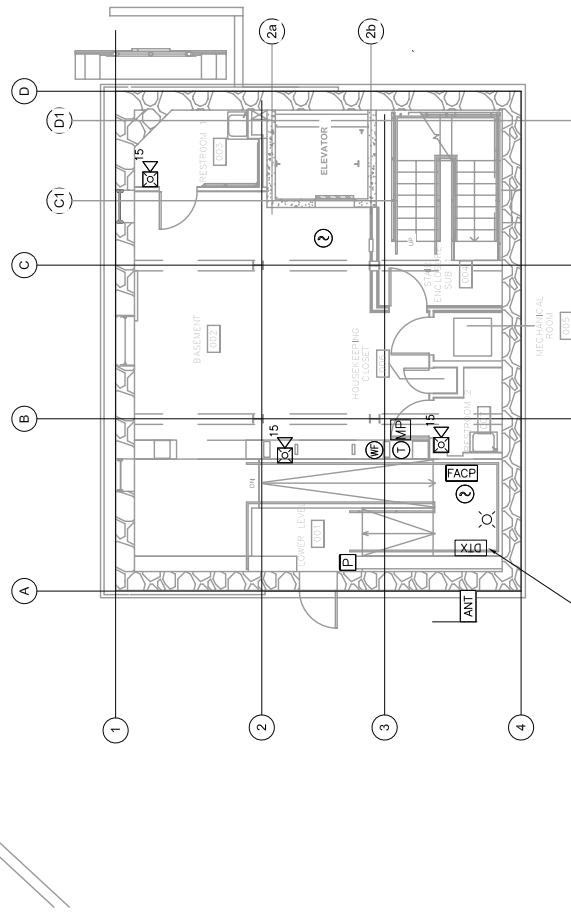
Building Scale: 1/8"	As Voted
Building Scale: 1/8"	Drawing Start Date: 05/07/2012
Building Scale: 1/8"	Drawing Finish Date: 10/15/2012
Building Scale: 1/8"	Drawing Approved: 10/15/2012

BES DESIGN BUILD	Donald Schiltz Jr., P.E. Fire Protection Engineer & Life Safety Consulting Phone: (202) 333-1234 Email: Dschiltz.FPT@gmail.com
1612 K Street, NW, Suite 1000 Washington, DC 20006 Phone: (202) 333-1234 Fax: (202) 223-2121	

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FIRE ALARM LEGEND

<input checked="" type="checkbox"/>	WALL MOUNTED COMBINATION SPEAKER & STROBE
<input type="checkbox"/>	FIRE ALARM STROBE
<input type="checkbox"/>	MANUAL PULL STATION
<input type="checkbox"/>	FIRE ALARM CONTROL PANEL
<input type="checkbox"/>	SMOKE DETECTOR
<input type="checkbox"/>	WATER FLOW SWITCH
<input type="checkbox"/>	TAMPER SWITCH
<input type="checkbox"/>	WIRELESS TRANSMITTER
<input type="checkbox"/>	CONTROL RELAY
<input type="checkbox"/>	MONITOR POINT
<input type="checkbox"/>	ANTENNA

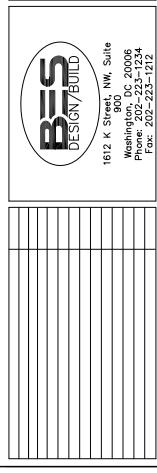


ADDRESSEABLE WIRELESS TRANSMITTER TO MATCH EXISTING MANUFACTURER:
 SIGGOM TLC SYSTEMS
 P. O. BOX 3125
 WOBURN MA 01888-3125
 POC: SID EARLEY TEL: 781-938-0370

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 36858, Expiration Date: 2013-01-25.

FINAL

Drawing Title:		Project Name:	
FIRE ALARM - BASEMENT		RENOVATE MANSION HOUSE AND CRIST MILL VA MEDICAL CENTER	
Approved: Chief, Facilities and Engineering:	Approved: Associate Chief for Maintenance and Operations, Party Point:	Building No:	Drawn:
<input type="checkbox"/>	<input type="checkbox"/>	504	RWB
Approved: Associate Director for Operations:	Approved: Director, Medical Center:		
<input type="checkbox"/>	<input type="checkbox"/>		
Drawings:	Checklist:		
<input type="checkbox"/>	<input type="checkbox"/>		
Location:	PERRY POINT MARYLAND		
Date: 10/15/2012 Project No: 51245-10-335 Drawing No: 504-FAI-01			
Dwg: 1 of 5			



A B C D E

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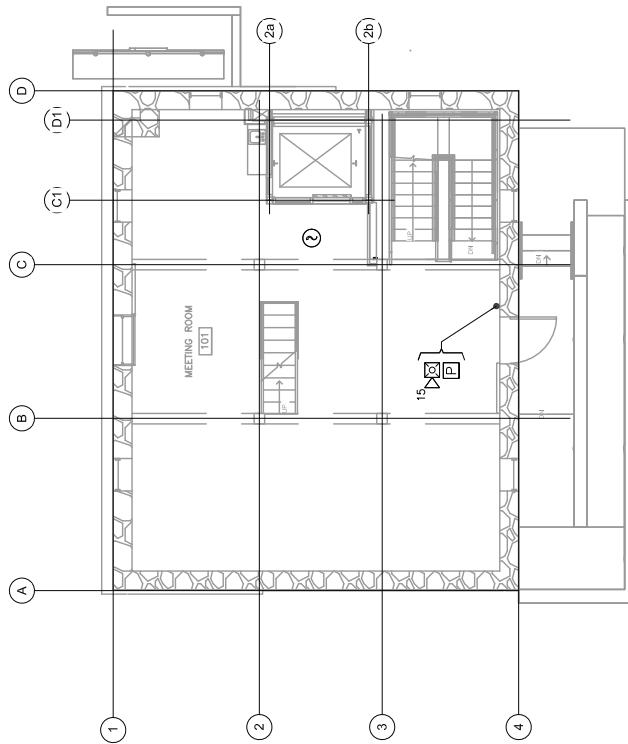
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FIRE ALARM LEGEND

	WALL MOUNTED COMBINATION SPEAKER & STROBE
	FIRE ALARM STROBE
	MANUAL PULL STATION
	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR
	WATER FLOW SWITCH
	TAMPER SWITCH
	WIRELESS TRANSMITTER
	CONTROL RELAY
	MONITOR POINT
	ANTENNA



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 36858. Expiration Date: 2013-01-25.

Donald J. Schidt Jr.
10/15/12

FINAL

Drawing Title:		Project Name:	
FIRE ALARM - 1ST FLOOR		RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: Chief, Facilities and Engineering:	Approved: Associate Chief for Maintenance and Operations, Party Point:	Approved: Associate Director for Operations:	Approved: Director, Medical Center:
Drawing Scale: AS VOTED		Drawing Start Date: 05/07/2012	
Drawing Finish Date: 10/15/2012		Drawing Approved: JOE BNAUCH	
Drawing No.: 504-FAM02		Drawn: RWB	
Dwg. 2 of 5		Location: PERRY POINT MARYLAND	

BES DESIGN-BUILD
1612 K Street, NW, Suite 900
Washington, DC 20006
Phone: (202) 315-7220
Email: DSchidt.FAM@gmail.com

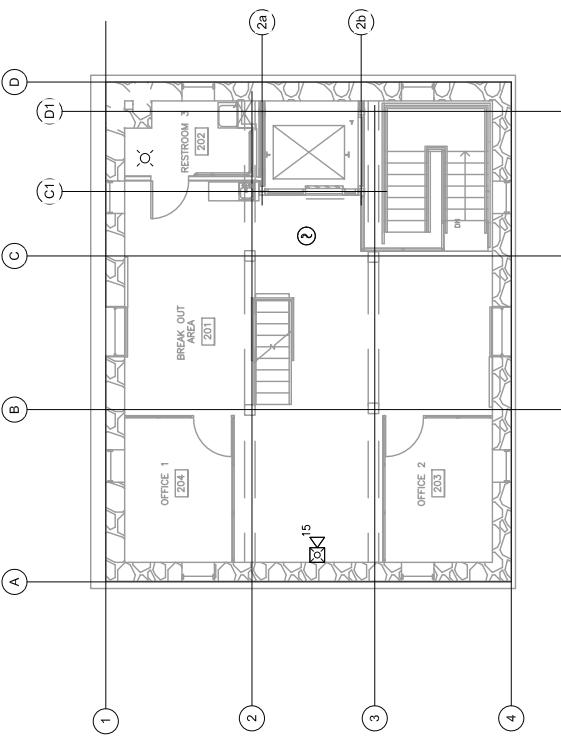


Donald Schleit Jr.
10/15/12

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 368558, Expiration Date: 2013-01-25.

FINAL

DRAFTS & DRAWINGS		Date: 10/15/2012
Project No.: 51245-10-325		Project No.: 51245-10-325
DRAWING NO.: 504-FAL03		DRAWING NO.: 504-FAL03
Location: PERRY POINT MARYLAND		Location: PERRY POINT MARYLAND
Dwg. 3 of 5		Dwg. 3 of 5

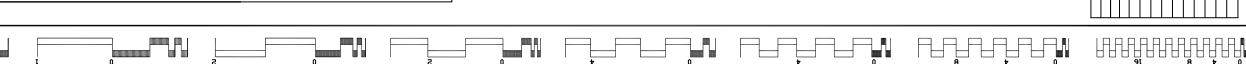
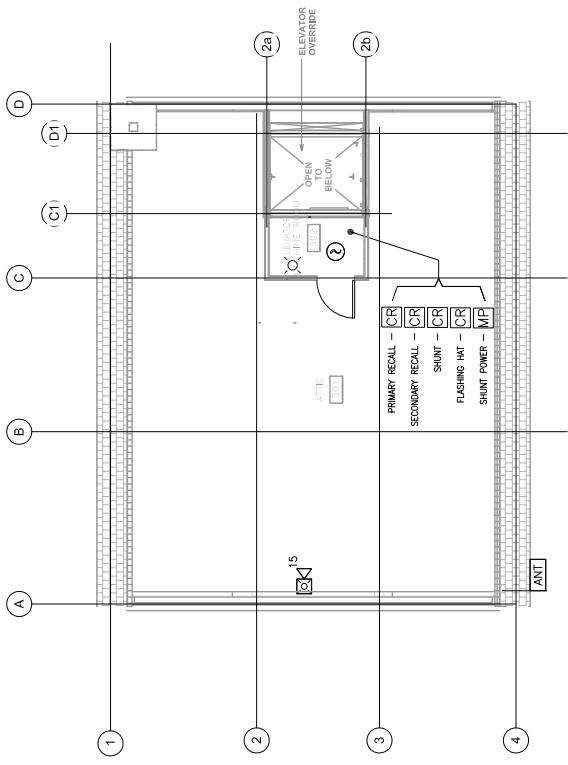


FIRE ALARM LEGEND	
<input checked="" type="checkbox"/>	WALL MOUNTED COMBINATION SPEAKER & STROBE
<input type="checkbox"/>	FIRE ALARM STROBE
<input type="checkbox"/>	MANUAL PULL STATION
<input type="checkbox"/>	FIRE ALARM CONTROL PANEL
<input type="checkbox"/>	SMOKE DETECTOR
<input type="checkbox"/>	WATER FLOW SWITCH
<input type="checkbox"/>	TAMPER SWITCH
<input type="checkbox"/>	WIRELESS TRANSMITTER
<input type="checkbox"/>	CONTROL RELAY
<input type="checkbox"/>	MONITOR POINT
<input type="checkbox"/>	ANTENNA

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FIRE ALARM LEGEND

- 15 WALL MOUNTED COMBINATION SPEAKER & STROBE
- FIRE ALARM STROBE
- P MANUAL PULL STATION
- FIRE ALARM CONTROL PANEL
- ② SMOKE DETECTOR
- WF WATER FLOW SWITCH
- T TAMPER SWITCH
- DTX WIRELESS TRANSMITTER
- CR CONTROL RELAY
- MF MONITOR POINT
- ANT ANTENNA



Drawing Scale:	
AS VOTED	
Drawing Start Date: 05/05/2012	
Drawing Finish Date: 10/15/2012	
Drawing Approved: JOE BNAUCH	
 BES DESIGN-BUILD 1612 K Street, NW, Suite 900 Washington, DC 20006 Phone: (202) 315-7220 Email: OBeschliff.FPT@gmail.com	

Drawing Scale:	
AS VOTED	
Drawing Start Date: 05/05/2012	
Drawing Finish Date: 10/15/2012	
Drawing Approved: JOE BNAUCH	

Project Title:	
FIRE ALARM - ATTIC	
RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: Associate Director for Operations:	
Building No:	504
Drawn:	RWB
Checked:	DWS
Location:	PERRY POINT MARYLAND

Date:	
10/15/2012	
Project No: 51245-10-325	
DRAWING NO: 504-FAT04	
Dwg. 4 of 5	

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 366558. Expiration Date: 2013-01-25.



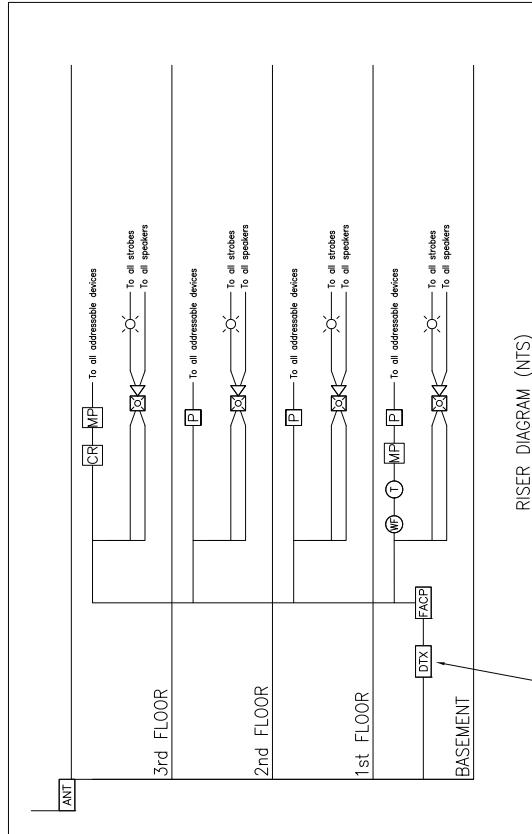
Project Title:	
FIRE ALARM - ATTIC	
RENOVATE MANSION HOUSE AND GRIST MILL VA MEDICAL CENTER	
Approved: Associate Director for Operations:	
Building No:	504
Drawn:	RWB
Checked:	DWS
Location:	PERRY POINT MARYLAND

1 2 3 4 5 6 7 8

FIRE ALARM LEGEND	
<input checked="" type="checkbox"/>	15 WALL MOUNTED COMBINATION SPEAKER & STROBE
	FIRE ALARM STROBE
	MANUAL PULL STATION
	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR
	WATER FLOW SWITCH
	TAMPER SWITCH
	WIRELESS TRANSMITTER
	CONTROL RELAY
	MONITOR POINT
	ANTENNA

FIRE ALARM MATRIX

Fire Alarm System Matrix		Fire Alarm Matrix								
		Manual Pull Station	Smoke Detector	Sprinkler Waterflow Switch	Sprinkler Tamper Switch	Fire Alarm System Trouble	Elevator Smoke Detector Primary	Elevator Machine Room Heat Detector	Elevator Smoke Detector Alternate	Elevator Machine Room Heat Detector
Display alarm signal on the Fire Alarm Control Panel (FACP) and Remote Annunciator (RA)		X	X				X	X	X	X
Sound General Building Alarm		X	X				X	X	X	X
Transmit signal to Fire Department Receiving Station		X	X	X	X		X	X	X	X
Display supervisory signal on the FACP and RA				X						
Display trouble signal on the FACP and RA					X					
Recall Elevator to Primary Floor						X				
Recall Elevator to Alternate Floor							X			
Infinite Elevator Shutdown and Disconnected Elevator Power								X		



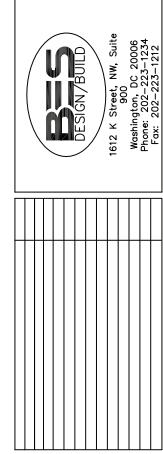
RISER DIAGRAM (NTS)

ADDRESSEABLE WIRELESS TRANSMITTER TO MATCH EXISTING MANUFACTURER:
SIGCOM TLC SYSTEMS
P. O. BOX 3125
WOBBURN MA 01885-2025
POC: SID EARLEY TEL: 781-938-0370

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 36858, Expiration Date: 2013-01-25.

Donald Schildt Jr., P.E.

10/15/12



Drawing Scale: AS VOTED	Approved: Chief, Facilities and Engineering:
Drawing Start Date: 03/07/2012	Approved: Associate Chief for Maintenance and Operations, Party Point:
Drawing Finish Date: 10/15/2012	Approved: Associate Director for Operations:
Drawing Approved: JOE BAWACH	Approved: Director, Medical Center:

Drawing Scale: AS VOTED	Approved: Chief, Facilities and Engineering:
Drawing Start Date: 03/07/2012	Approved: Associate Chief for Maintenance and Operations, Party Point:
Drawing Finish Date: 10/15/2012	Approved: Associate Director for Operations:
Drawing Approved: JOE BAWACH	Approved: Director, Medical Center:

Drawing Scale: AS VOTED	Approved: Chief, Facilities and Engineering:
Drawing Start Date: 03/07/2012	Approved: Associate Chief for Maintenance and Operations, Party Point:
Drawing Finish Date: 10/15/2012	Approved: Associate Director for Operations:
Drawing Approved: JOE BAWACH	Approved: Director, Medical Center:

Date: 10/15/2012	Project Name: RENOVATE MANSION HOUSE AND CRIST MILL VA MEDICAL CENTER
Project No: 51245-10-325	Drawing No: 504-F105
Building No: 504	Drawn: RWB
Checked: DWS	Drawn: RWB
Location: PERRY POINT MARYLAND	Dwg: 5 of 5